ALNRC 00025 May 15, 2009

Enclosure H

Quarterly Discharge Monitoring Reports (DMR) for 2004 through 2008

Enclosure H: Callaway Quarterly NPDES Discharge Monitoring Reports:

2004	Report Period	Report Months
UOTCR 04-0011	NPDES Monthly Report	February 2004
UOTCR 04-0020	NPDES Monthly Report	May 2004
UOTCR 04-034	NPDES Monthly Report	August 2004
UOTCR 04-042	NPDES Monthly Report	November 2004
2005		
UOTCR 05-011	NPDES Monthly Report	February 2005
UOTCR 05-019	NPDES Monthly Report	May 2005
UOTCR 05-035	NPDES Monthly Report	August 2005
UOTCR 05-042	NPDES Monthly Report	November 2005
2006		
UOTCR 06-009	NPDES Monthly Report	February 2006
UOTCR 06-0021	NPDES Monthly Report	May 2006
UOTCR 06-0030	NPDES Monthly Report	August 2006
UOTCR 06-0037	NPDES Monthly Report	November 2006
2007		
UOTCR 07-0016	NPDES Monthly Report	February 2007
UOTCR 07-0032	NPDES Monthly Report	May 2007
Callaway DMR 3Qtr 2007	NPDES Quarterly Report	Jul-Aug-Sep 2007
Callaway DMR 4Qtr 2007	NPDES Quarterly Report	Oct-Nov-Dec 2007
2008		
Callaway DMR 1Qtr 2008	NPDES Quarterly Report	Jan-Feb-Mar 2008
Callaway DMR 2Qtr 2008	NPDES Quarterly Report	Apr-May-Jun 2008
Callaway DMR 3Qtr 2008	NPDES Quarterly Report	Jul-Aug-Sep 2008
Callaway DMR 4Qtr 2008	NPDES Quarterly Report	Oct-Nov-Dec 2008

UOTCR 04-0011

March 11, 2004

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for February 2004. Results are noted in comment section of each Outfall.

An exception report was submitted to Missouri Department of Natural Resources for the February 11, 2004, overflow of sanitary water from manhole #4, and its subsequent discharge via storm water runoff Outfall 012.

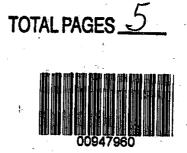
Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998



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NPDES MONITORING REPORT

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OUTFALL 001 RADWASTE SYSTEM

DATES	VSOURGE C	ELOW S	TSS	Boron The	
1	6	.090	6	193	6.22
2	7	.093	8	326	6.37
4	6	.091	12	115	6.19
5	7	.094	2	100	7.53
7	6	.093	9	66	6.54
13	7	.093	9	63	7.33
18	6	.042		122	6.78
20	6	.041	4	459	6.38
23	7	.093	4	106	6.53
24	6	.092	8	213	6.15
27	7	.094	6	75	6.07
29	6	.093	9	65	6.22
	•				
	· · ·				
	· · · · · · · · · · · · · · · · · · ·				
	•			·····	
·····				· · · · -	
L				<u> </u>	

SPARAMETER 21 CL 10 CL 1	FREO		nsi sasari si NS
		MONTHLY AVERAGE	DAUM2- MAXE
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
TSS (mg/1)	EB	30	45
Boroa (mg/l)	EB	N.A.	N.A.
TRC (ug/l)	Monthly	N.A.	190
BOD (mg/i)	Monthly	N.A.	N.A.
O&G (mg/1)	Monthly	15	20

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ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

1 = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

•7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

2 SP 10	BOD(m_/J)	11.C(07/1)	080 (men)
5	1.8	30	2
			<u> </u>
		h	
COMMENT	S:	<u>ا</u>	

File C170.0005

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CA-0320 01/15/04

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UOTCR040011 00947960 (000)

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NPDES MONITORING REPORT

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OUTFALL 002 COOLING TOWER BLOWDOWN

	2041		$\frac{g(n)}{\sqrt{2}}$		(-)
	1	2.0	62	.17	300
	2	4.4	63	.09	90
	3	0	57	.13	450
ĺ	4	0	68	+3	· • • I
	5	0	64	.18	510
	6	. 0	58	.14	260
.	7	• 0	61	.18	540
	8	0	55	*1	*1
	9 ~	1.9	58	.02	160
•	10	· · 0· · · ·	•- • 64	*1	•1
	11	. 0	65	*1	*1
	12	0	59	.18	480
	13	1.1	62	<.01	80
	14	0	48.	*1	≠j
	15	1.0	60	.14	440
	16	Z.9	62	.17	380
	.17	. 3.5	64	<.01	0
	18	6.8	70	<.01	50
	19	6.3	78	.02	150
	· 20 · · ·	5.5	72	07	130
	21	- 8.6	64	.04	800
	22	0	68	÷1	*1
	23	4.6	69	.02	50
*	24	<u>3.3</u> ""''	67	.02	140
	25	8.0 .	67	< 01	0
	26	7.6	70	.01	140
	27	4.6	72	<.01	150
	28	4.3	74	<.01	140
	29	1.8	79	<.01	120

DATE	1010	(mg/s) + (t
2	70	2304
.9	33	1508
16	63	1402
23	120	1644

State of the second	A CONTRACTOR OF THE OWNER	
DATE		
9	786	
<u> </u>		······
16	686	1.0
L	L	المجمعة معاديه والمساجعة

101.100.2 ALD C FLOW CONT. N.A. N.A. TOTAL SUSPENDED SOLIDS WKLY. N.A. N.A. TOTAL DISSOLVED SOLIDS WKLY. N.A. ·N.A. OIL AND GREASE 20 QRTLY (1) 15 TOTAL RESIDUAL CHLORINE DAILY N.A. N.A. SULFATE QRTLY.(1) N.A. N.A. FREE AVAIL. CHLORINE DAILY N.A. 0.2 (mg/l) 110°F TEMPERATURE (MAXIMUM) DAILY 110°F CONT. 6.0 - 9.0 6.0 - 9.0 pH

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: <u>*1 Blowdown secured.</u> No pH excursions occurred this month.

File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) February, 2004

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NPDES MONITORING REPORT

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OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

SANITARY WASTE

2010年1月	開催の可能			
20	.005	4	3.2	7.47
	• •• • • •		••••	

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OUTFALL 007

	£	11		
pН		QRTLY (1)	6.0 - 9.0	6.0 - 9.0
BOD		QRTLY (1)	45	65
TSS		QRTLY (1)	70	110
FLOW		QRTLY (1)	N.A.	N.A.
		0.860	PACEA'C P	A MALLY AVG ST
	101446			

STORM WATER RUNOFF PONDS

MOTAYCE BOXILYMAX

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

110 XAVA 51

OUTFALLS 010 - 015

	TOTIVITUEL	A PARA		O anote	-(COD)	
20	10	.013	10	2	15	8.43
20	11	.06	20	2	·25	7.62
· 20	12	005	6.	7	- 18	• 7.95
20	13	.005	30	2	15	7.88
20	14	.02	10	2	ব	7.91
20	15	.009	5	2	20	8.40

OUTFALL 016

					t RG L (age) a
12	7.3	12	3.	8.04	60
• •		• • • •			•

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

FLOW QRTLY. (1) N.A. N.A. N.A. TSS QRTLY (1) N.A. COD QRTLY(1) N:A. N.A. O and G QRTLY (1) 15 20 pН QRTLY(1) >6.0 >6.0

ERBO 74

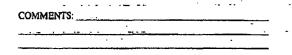
States and states

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMACE.		國家國際國家回避	III SAMA
		EMORANGER	10/110/01/11/2
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100-
O and G	QRTLY (1)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 • 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.



File C170.0005

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CA-0320 01/15/04

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) February, 2004 PAGE 4 OF 4

NPDES MONITORING REPORT

"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."

Preparer

Reviewer

Approved

Plant Manager

Page 4 of 4

CA0320 01/15/04

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UOTCR 04-020

June 8, 2004

Steven S. Weiss Mail Code 602

4

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for May 2004. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998



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UOTCR040020 00989662 (000)

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NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

10.03	Sources				ELI.	9777777777777	$L^{(2)}(0)$		
3	(), ()	.092	14	388	6.84	Star , experience in advice	and the second s	MONDEL DY	\mathbb{E}
5	6	.091	14	8	7.33			ATTIXET	
8	7	.093	9	270	7.34	FLOW (MGD)	EB	N.A.	·
12	6	.093	10	66	7.23	pH (STD)	EB	6.0-9.0	6.
20	7	.091	10	22	7.37	TSS (mg/1)	EB	30	
22	6	.093	16	310	7.17	Boron (mg/l)	EB	N.A.	1
24	7	.091	13	30	7.78	TRC (ug/l)	Monthly	N.A.	
28	6	.089	34	35	7.66	BOD (mg/l)	Monthly	N.A.	1
30	7	.092	14	217	7.35	O&G (mg/1)	Monthly	15	ľ .
31	6	.052	20	189	7.27	ALL SAMPLES	ANALYZE	BY Ameren UI	Call
						Plant OPERATIC	NS LABOR	ATORY USING	ł
		•				METHODS SPE	CIFIED UNI	DER 10CSR 20-7	.015
					· · · · · · · · · · · · · · · · · · ·	SOURCES			
						1 = WASTE M	IONITOR TA	ANK A	
					h	2 = WASTEM	IONITOR T	ANK B	
						3 = STEAM G	ENERATOR	BLOWDOWN	
			<u></u>			4 = SEC. LIQ.	WASTE MO	NITOR TANK	A
						-		NITOR TANK	
						-		CHARGE TAN	
						7 = LIQ. RAD			
				· · · · · · · · · · · · · · · · · · ·		EB = EACH BA			
					·	For Direction BO	1.1.1	TROUBLE SI	3
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						COMMENTS:		<u> </u>	
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File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR<u>) May, 2004</u> PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

TEOW TEOW TEOE TEOE TEOE (2) 4 0 68 <0.01 <100 (2) 21 8.9 73 <0.01 100 (2) 22 4.5 66 <0.01 <100 (2) 23 0.1 74 <0.01 <100 (2) 24 5.3 70 01 <100 (2) 25 7.2 69 <0.01 <100 (2) 26 10.1 72 <0.01 <100 (2) 27 6.9 72 <0.01 <100 (2) 26 10.1 72 <0.01 <100 (2) 27 6.9 72 <0.01 <100 (2) 28 6.6 73 <0.01 <100 30 6.6 77 <0.01 <100 31 8.4 64 <0.01 <100 31 8.4 64 <0.01 <100 31 8.4 64 <0.01 <100 30 6.6 77 <0.01 <100 30 <td< th=""><th></th><th></th><th>And And Andrews</th><th></th><th></th></td<>			And And Andrews		
(2) 4 0 68 $c0.01$ <100 (2) 21 8.9 73 $c0.01$ 100 (2) 22 4.5 66 <0.01 <100 (2) 23 0.1 74 <0.01 <100 (2) 23 0.1 74 <0.01 <100 (2) 24 5.3 70 01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 8.9 70 <0.01 <100 (2) 28 6.6 73 <0.01 <100 (2) 29 8.9 70 <0.01 <100 (3) 6.6 77 <0.01 <100 (2) 29 8.9 70 <0.01 <100 (3) 6.6 77 <0.01 <100 (4) (1) (1) <10	- DATE.	(XO))	77317D 167303391	. JAC (ττ. (C-Ω)
(2) 21 8.9 73 $< c0.01$ 100 (2) 22 4.5 66 <0.01 <100 (2) 23 0.1 74 <0.01 <100 (2) 23 0.1 74 <0.01 <100 (2) 24 5.3 70 01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 7.2 69 <0.01 <100 (2) 25 7.2 6.9 72 <0.01 <100 (2) 28 6.6 73 <0.01 <100 (2) 29 8.9 70 <0.01 <100 (2) 29 8.9 70 <0.01 <100 30 6.6 77 <0.01 <100 31 8.4 64 <0.01 <100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(2) 21	8.9	73	<0.01	100
(2) 23 0.1 74 <0.01	(2) 22	4.5	66	<0.01	<100
(2) 25 7.2 69 <0.01	St. 2 * 1 * 1		.74		1 2 2 M 11
(2) 26 10.1 72 <0.01 <100 (2) 27 6.9 72 <0.01	(2) 24	5.3	70	.01	<100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(2) 25	7.2	69	<0.01	<100
(2) 28 6.6 73 <0.01	(2) 26	10.1	72	<0.01	<100
(2) 29 8.9 70 <0.01 <100 30 6.6 77 <0.01	(2) 27	6.9	72	<0.01	<100
(2) 29 8.9 70 <0.01 <100 30 6.6 77 <0.01	(2) 28	6.6	73	<0.01	<100
30 6.6 77 <0.01 <100 31 8.4 64 <0.01	(2) 29	8.9	70		<100
		6.6	77	<0.01	<100
	31	8.4	64	<0.01	<100
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4	7	1004
20	9	480
25	6	214
31	21	246

Same Barrier Barrier

DATE	5:1Jcn (17 13)	<u>оссе</u> (т. Ц)
4	458	3
20	180	1.

Second and a second second	FREQ	· · · · · /12/6	1051 . 8
		ANCE -	UNIET UNVE
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY *	15	20
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	N.A.
SULFATE	QRTLY.*	N.A.	N.A.
FREE AVAIL. CHLORINE	DAILY	N.A.	0.2 (mg/l)
TEMPERATURE (MAXIMUM)	DAILY	110°F	.110°F
pH	CONT.	6.0 - 9.0	60-90

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

 SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: (2) DIP SAMPLE,

No pH excursions occurred this month. No CTBD on dates not listed

File C170.0005

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CA-0320 01/15/04

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NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

18 .013 5 25	12.4	7.76
	12.4	
	· · · ·	

SANITARY WASTE

PARAMETER#		E STREEP	ITE (((1)))
	REO -	MOYAVC	WHAT AVEL
FLOW	QRTLY •	N.A.	N.A.
TSS	QRTLY • QRTLY •	70	110
BOD pH	ORTLY *	6.0 - 9.0	65

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	TOTTEADL	(MGD)		(a)(1)	COD (agl)	- TH
20	10	.050	3	2	24	8.18
20	11	.229	39	10	47	7.78
20	12	.018	58	2	19	7.96
29	13	.020	37	6	37	7.64
20	14	.082	35	2	26	8.56
20	15	.033	47	2	24	8.00

OUTFALL 016

DATE	EVON (MGD)		Cand CI	T.H.	ATURG A
20	2.7	11	1	8.17	<100
4 - S.				•	

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

	The second second as	1	and the second second
PARAMETERS	ENERRO MAR		I INS
		国MO AVG起	EDAILYIMAX
FLOW	QRTLY.	N.A.	N.A.
TSS	QRTLY *	N.A.	N.A.
COD	QRTLY *	N.A.	N.A.
O and G	QRTLY *	15	20
рН	QRTLY*	>6.0	>6.0

SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETERS	KEREO		
	Berthing of States	BMO AVG.	BDAILY MAX
FLOW	QRTLY *	N.A.	N.A.
TSS	QRTLY +	30	100
O and G	QRTLY *	15	20
pН	QRTLY *	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY *	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _

File C170.0005

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UOTCR040020 00989662 (000)

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NPDES MONITORING REPORT

"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."

Preparer Reviewer

Approved Plant Manager

Page 4 of 4

CA0320 01/15/04

UOTCR 04-034

September 13, 2004

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for August 2004. Results are noted in comment section of each Outfall.

An exception report was submitted to Missouri Department of Natural Resources for the August 20, 2004, overflow of sanitary water from manhole #4, and its subsequent discharge via storm water runoff Outfall 012.

This report contains the one-time monitoring value, 21 ppb, for monoethanolamine (cas 141-43-5) on Outfall 001.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998

TOTAL PAGES_

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>August, 2004</u> PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pН
2	6	.092	8	17	6.28
5	7	.093	12	30	6.23
6	6	.091	15	4	6.46
7	7	.092	8	20	6.70
9	6	.091	20	4	7.81
10	7	.093	12	2	8.19
11	6	.091	1	2	8.22
13	7	.092	18	10	7.06
14	6	.092	13	18	6.41
16	7	.094	22	12	6.50
17	6	.092	13	0.5	6.76
18	7	.093	17	25	6.63
20	6	.092	15	13	6.13
21	7	.091	9	4	6.10
23	6	.083	14	14	6.19
26	7	.092	9	3	6.33
27	6	.092	12	28	7.26
28	7.	.093	9	7	6.60
29	6	.091	.19	10	6.90
31	7.	.093	17	63	7.45
•					
•				1	
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	· · · ·				
	1				
	4			<u> </u>	
					
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	1			<u></u>	

PARAMETER	FREQ.	LIMITS	
·····		MONTHLY AVERAGE	DAILY MAX
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
T\$\$ (mg/1)	EB	30	45
Boron (mg/l)	EB	N.A.	N.A.
TRC (ug/l)	Monthly	N.A.	190
BOD (mg/l)	Monthly	N.A.	N.A.
O&G (mg/1)	Monthly	15	20

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

1 = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
4	-	100	4
6 ·	.63	-	-
	TS: <u>"B" DMT on</u>	08-16-04 contr	ined 21 PPB
of ETA.			

File C170.0005

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NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

ഹണം	ELECTI	ഞ്ഞ	500	TEC
	(MED)	DITP (MVP9P	(570)	(ET:(1))
1	4	88	<.01	100
2	5.1	86	< 01	30
3	3.1	90	< 01	100
• 4	2.5	94	<.01	190
5	3.9	88	<.01	70
6	5.3	83	<.01	80
7	4.4	86	<.01	70
8	4.4	88	<.01	100
.9	4.2	83	.01	100
10	2.1	85	<.01	150
<u> </u>	1.7	79	<.01	60
12	2.1	76	<.01	210
13	4.4	78	.02	160
14	3.1	80	.01	70
- 15	2.9	80	.03	80
16	4.2	82	<.01	<10
17	1.0	83	<.01	20
18	1.0	83	.06	20
19	3.0	82	<.01	20
20	3.2	83	.01	110
21	2.9	83	.01	120
22	3:3	85	.02	70
23	4.3	· 85	.04	190
24	2.8	84	.02	120
25	3.4	85	.02	.90
26	3.5	90	<.01	150
27	2.4	86	.01	80
28	6.3	88	.03	140
29	2.9	- 84	.02	90
30	3.8	80	<.01	90
31	2.9	84	<.01	100

DATE DATE	(1385) 	(G):(D)
2	61	2360
9	46	1944
16	46	2072
23	56	2256
30	67	1764

the second s

DATE	Salfatto (tarAD)	OZO (TAD)
2	1400	1.9
. · ·		

FARAMEDER	121203	山	WIMDES .	
		6ZCO.	MANDAY MANT	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY *	15	20	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	N.A.	
SULFATE	QRTLY.*	N.A.	N.A.	
FREE AVAIL. CHLORINE	DAILY	N.A.	0.2 (mg/l)	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _ No PH excursions occurred this month.

File C170.0005

Page 2 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>August, 2004</u> PAGE 3 OF 4

J

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DAR	ELOXI (XCD)	7555 (a. 7 1 1)	EOD (arAD)	
13	.001	10		7.08
18	.001	18	16	7.3
	<u>}</u>			

SANITARY WASTE

RAVRADAEDVER		141/10/53(612/10)	
	17339)	MOLAVES	WIND & AWAS
FLOW	QRTLY +	N.A.	N.A.
TSS	QRTLY *	70	110
BOD	QRTLY *	45	65
рН	QRTLY *	6.0 - 9.0	6.0 - 9.0

 SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

QUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

USC (CrAI)

90

OUTFALLS 010 - 015

DATES	OTTAM.	(MED);	USS ((ar/D)	0an0C. (ar/D)	(COD): (TTFD)	
11	10	.050	6	2	28	8.34
11	11	.229	10	1	30	7.38
11	12	.018	8	0	18	9.36
11	13	.020	41	1	25	8.94
11	14	.082	8	l	23	10.32
n	15	.033	10	1 - 7	33	8.10

OUTFALL 016

Dand G

(mon)

2

لذلع

8.17

TSS

(mg/L)

20

STORM WATER RUNOFF PONDS

PARAMETUER	- 13780	I PULLINS	
	· · · · · · · · · · · · · · · · · · ·	MOLAVE	DAILEYIMAXC
FLOW	QRTLY *	N.A.	N.A.
TSS	QRTLY *	<u>N.A.</u>	N.A.
COD	QRTLY +	N.A.	N.A.
O and G	QRTLY *	15	20
pH	QRTLY*	>6.0	>6.0

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

EARAMETE	RE FREO	IUNINS		
····		MOLAVES	DAVIGYDMAN	
FLOW	QRTLY *	N.A.	N.A.	
TSS	QRTLY *	30	100	
O and G	QRTLY *	15	20	
pН	QRTLY *	6.0 - 9.0	6.0 - 9.0	
TRC	ORTLY *	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Outfall 016 TRC results on Attachment 1.

OUTFALL 017

ULTIMATE HEAT SINK. No Discharge

DINA3

11

RELOW

(MAD)

2.16

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005

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CA-0320 01/15/04

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) August, 2004 PAGE 4 OF 4

NPDES MONITORING REPORT

"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."

Preparer

Review Approved Plant Manager

Page 4 of 4

CA0320 01/15/04

ATTACHMENT 1 AUGUST 31, 2004

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
3	110
4	140
5	110
10	70
11	150
12	140
17	180
18	160
19	170
24	160
25	90
31	190

ATTACHMENT 1

UOTCR 04-042

December 10, 2004

Steven S. Weiss Mail Code 602

4

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for November 2004. Results are noted in comment section of each Outfall.

An exception report was submitted to Missouri Department of Natural Resources for the November 30, 2004 unauthorized discharge of oily waste water from an outside oily waste sump.

The TSS monthly average was exceeded on Outfall 016 due to the failure of a pump feeding polyelectrolyte.

Attachment 1 of the Discharge Monitoring Report contains the Outfall 002 asbestos results. This is a one time monitoring requirement per the new NPDES permit. Results were less than the detectable limit of the testing laboratory IATL.

The 2004 WET test results are included with this report for submittal to DNR.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998



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UOTCR040042 00958493 (001)

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NPDES MONITORING REPORT

DATE	SOURCE	FLOW (MGD).	TSS (mg/1)	Boron (mg/l)	рĦ
3	7	.091	15	19	6.44
3 5	6	.093	20	3	8.01
6	7	.092	16	17	7.78
8	6	.091	23	5	8.44
9	7	.093	16	88	7.45
12	6	.090	10	1	8.58
14	7	.093	16	178	7.06
15	6	.071	14	76	7.82
19	7	.094	13	108	6.23
24	7	.090	14	16	8.89
25	7	.093	10	0	8.67
26	6	.091	27	3	7.64
28	7	.092	1 .	. 7	7.69
29	6	.091	34	32	6.21
30	7	.094	20	12	7,44
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<u>, , , , , , , , , , , , , , , , , , , </u>					**

OUTFALL 001 RADWASTE SYSTEM

FREQ	LIMT	75.
	MONTHLY AVERAGE	DAILY MAX
EB	N.A.	N.A.
EB	6.0-9.0	6.0-9.0
EB	30	45
EB	N.A.	N.A.
Monthly	N.A.	190
Monthly	N.A.	N.A.
Monthly	15	20
	EB EB EB B Monthly Monthly	MONTHLY AVERAGEEBN.A.EB60.9.0EB30EBN.A.MonthlyN.A.MonthlyN.A.

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

1 = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC: LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

Date	BOD (mg/l)	TRC (ug/1)	O&G (mg/l)
3	472	<10	1.4
			<u> </u>
		-	+
COMMEN	L	_ <u>_</u>	I

File C170.0005

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CA-0320 01/15/04

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>November, 2004</u> PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

1 2 3 4 5 6 7	5.3 3.5 2.6 4.6 2.1 5.8 5.9 3.7	79 77 72 74 74 82	.04 .02 .03 <.01 .02	160 200 110 130
3 4 5 6 7	2.6 4.6 2.1 5.8 5.9	72 74 74 82	.03 <.01	110 130
4 5 6 7	2.6 4.6 2.1 5.8 5.9	74 74 82	<.01	130
5 6 7	2.1 5.8 5.9	74 82		
6 7	5.8 5.9	82	.02	
7	5.9			50
			.02	90
i l	27	78	<.01	40
8	3.1	74	<.01	10
9	5.0	75	<.01	70
10	5.0	82	.02	40
11	4.0	76	.03	40
12	4.6	71	.06	170
13	4.0	67	.10	150
14	6.0	68	.07	90
15	5.2	74	.01	60
16	4.6	73	<.01	10
17	4.3	81	<.01	<10
18	3.9	78	<.01	<10
19	5.2	73	<.01	60
20	4.7	72	.02	240
21	4.5	72	.02	140
22	4.7	. 72	.12	180
23	4.5	73	.06	180
24	5.9	73	.02	40
25	6.5	65	.04	200
26	6.0	73	.08	200
27	4.7	73	.01	90
28	6.5	65	.06	90
29	5.2	69	<.01	130
30	6.4	66	<.01	20

	ليصبح والتعاو	L
29	30	1540
22	72	2024
15	59	1724
8	79	1484
1	49	2372
DATE		(GT (D)

DYNE	Sm[]mic (m:7[])	036 (mal)
1	978	. 8

BARAMEDER	1222.00	ि छ	MIEUS
		ACO. AVE.	10X11157 171582
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY *	15	20
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	N.A.
SULFATE	QRTLY.*	N.A.	N.A.
FREE AVAIL CHLORINE	DAILY	N.A.	0.2 (mg/l)
TEMPERATURE (MAXIMUM)	DAILY	110 ° F	110° F
рН	CONT.	6.0 - 9.0	6.0 - 9.0

ALL SAMPLES ANALYZED BY Amerea UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

See Atlachment 1 for the one time asbestos monitoring of Outfall 002 required by the new NPDES permit.

File C170.0005

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NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATES	MI(MGD)	K TSSO	BOD 1	
10	.04	9	7	9.2
				· · · · · · · · · · · · · · · · · · ·
· · ·				
····· · · · ·				

SANITARY WASTE

- PARAMETER	A130	LUR WOLANES	IUS (UL/D) AND A
FLOW	QRTLY •	N.A.	N.A.
TSS	QRTLY *	70	110
BOD	QRTLY *	45	65
рH	QRTLY *	6.0 - 9.0	6.0 - 9.0

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

<u>OUTFALL 009</u> INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DAVES	CITATIVIN,	FLOW . (YGD)	(00110 (UTA)	(ar/a)	_n£
19	10	.087	8	1	19	8.16
19	11	.399	25	8	56	7.77
19	12	.031	49	2	22	8.36
19	13	.035	31	3	36	7.85
19	14	.143	14	.1	22	7.93
19	15	.058	50	1	22	8.14

OUTFALL 016

DATES	IFLOW (CCD)	2855 (ar(1))	Octail(C (Carilli)	pD.	UEC (UED)
9	0.94	13	3	7.91	<10
(2) 29	1.37	78			_

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREO.][]	MINS
][MO. ANC.	DATOY
FLOW	QRTLY.*	N.A.	N.A.
TSS	QRTLY *	N.A.	N.A.
COD	QRTLY *	N.A.	N.A.
O and G	QRTLY *	15	-20
рH	QRTLY*	>6.0	>6.0

 SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

RAMANAS	FREO	IUMDES		
		MOSAVE	DAILOYMAX	
FLOW	QRTLY *	N.A.	N.A.	
TSS	QRTLY *	30	100	
O and G	QRTLY *	15	20	
pН	QRTLY *	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY *	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: (2) High TSS resulted in monthly average being exceeded. High TSS due to loss of poly feed.

File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>November</u>, 2004 PAGE 4 OF 4

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NPDES MONITORING REPORT

"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."

Reviewen Preparer Approved Plant Manager

Page 4 of 4

CA0320 01/15/04

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UOTCR040042 00958493 (001)

LUICIC UT-UUTA KEU

001

January 7, 2004

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

ATTACHED IS AN UPDATED PAGE 3 OF THE NOVEMBER REPORT (dated December 10, 2004, 400 TER 04 042). BLEASE PLACE THIS IN THE REPORT AND DISCARD THE OLD PAGE?

Luanna M. Belsky

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998



TOTAL PAGES 2

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>November, 2004</u> PAGE 3 OF 4

NPDES MONITORING REPORT

<u>OUTFALL 003</u> WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

10	.04	9	7	7.51
<u></u>				·
· · · · · · · · · · · · · · · · · · ·				
	·			

SANITARY WASTE

		\$ <i>MO/026</i> 5	MARKED DRG 7
FLOW	QRTLY •	N.A.	N.A.
TSS	QRTLY +	70	110
BOD	QRTLY *	45	65
pH	QRTLY *	6.0 - 9.0	6.0 - 9.0

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

	Anone Ver	PLOOM MOD		Nord Con Nord Con	(0000) (0007))	
19	10	.087	8	1	19	8.16
19	11	.399	25	8	56	7.77
19	12	. 03 1	49	2	22	8.36
19	13	.035	31	3	36	7.85
19	14	.143	14	1	22	7.93
19	15	.058	50	1	22	8.14

OUTFALL 016

			Conteller Sangleber		
9	0.94	13	3	7.91	<i><</i> 10
(2) 29	1.37	78	-		

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

.

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETE.		4	MINS STATES
		OMO AVG	DHIDEMAD
FLOW	QRTLY. *	N.A.	N.A
TSS	QRTLY *	N.A.	N.A.
COD	QRTLY *	N.A.	N.A.
O and G	QRTLY *	15	20
pН	QRTLY*	>6.0	>6.0

* SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMADE	RILES DRAG	The Second	ITS REAL
		AMO AND A	DATE ENANCE
FLOW	QRTLY *	N.A.	<u>N.A.</u>
TSS	QRTLY *	30	100
O and G	_QRTLY *	15	20
pН	QRTLY *	6.0 - 9.0	6.0 - 9.0
TOC	OPTLY *	NΔ	100

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: (2) High TSS resulted in monthly average being exceeded. High TSS due to loss of poly feed.

File C170:0005

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UOTCR040042 00958493 (001)

UOTCR 05-011

March 9, 2005

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for February 2005. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 (2 copies) R/C Clerk A160.0998



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...... T.

NPDES MONITORING REPORT

OUTFALL 001 **RADWASTE SYSTEM**

199.01 44 TLAC

DATE	SOURCE	FLOW,	((.4 TSS (mg/1)	Boron (mg/I)	pH	PARAMETER	FREQ	7-16- 11 11-1-1	MITS
1	66	.090	30	9	8.62		l'interiore and	MONTHL	DAILY
3	7	.093	12	10	6.61	11-14 Mars	1.1.1	AVERAGE	MAX
4	6	.092	- 11	7	6.13	FLOW (MGD)	EB	N.A.	N.A.
5	7	.093	10	16	8.45	pH (STD)	EB	6.0-9.0	6.0-9.0
6	6	.093	14	6	7.77	TSS (mg/1)	EB	30	45
- 10	7	.093	13	10	8.46	Boron (mg/l)	EB	N.A.	N.A.
11	6	.092	10	9	8.45	TRC (ug/l)	Monthly	N.A.	190
15	7	.091	35 (1)	<.3	8.85	BOD (mg/l)	Monthly	N.A.	N.A.
23	6	.090	6	5	8.66	O&G (mg/1)	Monthly	15	20
25	7	.093	10	63	8.83	ALL SAMPLES	ANALYZE	D BY Ameren	UE Callaway
26	6	.093	2	124	8.32	Plant OPERATIC	NS LABOR	ATORY USD	NG
						METHODS SPE	CIFIED UN	DER IOCSR 2	0-7.015
								κ.	
			· · · · · · · · · · · · · · · · · · ·			SOURCES			
					<u> </u>	I = WASTEM	ONITOR T	ANK A	
					 	2 = WASTEM	ONITOR T	ANKB	
_						3 = STEAM G			N
					h	4 = SEC. LIQ.			
						-			
						5 = SEC. LIQ.			
						6 = LIQ. RAD	· · ·		
						7 = LIQ. RAD	WASTE DI	SCHARGE TA	NK B
		,			·	EB = EACH BA	ТСН		
						Date BO	D (mg/l)	TRC (ug/l)	0&G (mg/l)
	· · · · · ·					3	226	20	2
			·····	h					
		,			<u> </u>				
	·	······································			 {	COMMENTS:	l	· · ·	
		·		+	{{	(1) Exceeds mon	hiv average	limit but is hel	ow the daily
						max limit. Actua			
			· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·				

File C170.0005

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CA-0320 01/11/05

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UOTCR050011 (000)

PERMIT NO. MO-0098001 REPORTING PERIOD FEBRUARY, 2005 PAGE 2 of 4

....

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLON (MP)	ULLIP (LI)ST 917	T.C. (1270)
	2.0	62	<10
2	4.1	64	60
3	6.1	67	50
4	5.1	73	60
5	6.7	. 74	100
6	7.6	72	70
7	3.6	74	130
8	2.2	63	100
9	3.2.	.62	40
10	3.9	66	<10
11	3.4	68	180
12	3.5	72	70
13	7.6	75	40
14	3.7	75	70
15	5.4	77	70
16	3.2	68	<10
17	3.0	67	100
18	1.0	67	180
19	2.2	64	110
20	3.5	72	10
21	2.8	73	100
22	6.1	67	120
23	5.6	.67	100
24	5.9	65	120
25	6.6	73	130
26	7.5	70	140
27	6.6	70	150
28	5.4	70	180

DAVIES	48S (DD)	10255 (055700)
7	57	1576
14	69	2988
21	96	2312
28	51	1364

ITY, 072	- S1Gna - (1170)	(02:20) (1117/10)
7	742	1

IPANIA MATSONALS	1.1.1.20)	101	VI0/S
		5.02 ANIC:-	DALLY KANK
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

File C170.0005

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD <u>FEBRUARY, 2005</u> PAGE <u>3 of 4</u>

NPDES MONITORING REPORT

<u>OUTFALL 003</u> WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS 7	-BOD 1	<u>्र</u> स्
10	.177	4	4	7.89
•				
	•			•
				•

SANITARY WASTE

PARAMETER	de solor	Y. Sorth	TS (Helder A) 2.
	FREQ	MO AVC	WELL'AVG.
FLOW	QRTLY (i)	N.A.	N.A.
TSS	QRTLY (I)	70	110
BOD	QRTLY (I)	45	65
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

	OUTFALL 009					
INTAKE	INTAKE HEATER BLOWDOWN					
	DISCUADOR					

OUTFALLS 010 - 015

DATE	OUTFALL	^FLOW (MGD)	(TSS') (mg/1)	0 and G (mg/1)	COD (mg/l)	рН
7	10	.035	6	2	22	8.25
7	<u>n</u>	.161	42	2	20	8.35
7	12	.012	29	2	20	8.54
7	13	.014	14	3	12	8.07
7	14	.058	16	.2	20	8.25
7	15	.023	16	0	5	8.55

OUTFALL 016

DATE	FLOW (MGD)	TSS _(mg/l)	0 and C (mg/1)	рН	TRC (4g/l)
10	1.62	10	2	7.86	<10

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER?	KAPREO S.	COMITS		
「お客でのやいす。	e 1	MO. AVG.	DALLY MAX	
FLOW	QRTLY.(1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
рН	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	Let L	LIMITS		
- ALT AL	-1, 1, 7, 29,	MO AVG	DAILY MAXA		
FLOW	QRTLY (1)	N.A.	N.A.		
TSS	QRTLY (1)	30	100		
O and G	QRTLY (1)	-15	20		
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0		
TRC	ORTLY (1)	N.A.	190		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: ____

File C170.0005

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CA-0320 01/11/05

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UOTCR050011 (000)

PERMIT NO. MO-0098001 REPORTING PERIOD <u>FEBRUARY, 2005</u> PAGE <u>4 of 4</u>

NPDES MONITORING REPORT

"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."

pproved Preparer Plant Manager

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CA0320 01/11/05

UOTCR050011 (000)

UOTCR 05-019

June 14, 2005

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for May, 2005. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998



TOTAL PAGES 5

PERMIT NO. MO-0098001 REPORTING PERIOD <u>MAY. 2005</u> PAGE <u>1 of 4</u>

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW -	TSS (mg/l)	Boron ;	11
3	7	.092	9	63	8.40
7	7	.093	11	62	8.77
10	6	.090	18	19	8.58
19	.7	.090	32	66	8.98
22	6	.092	12	0.3	8.53
26	7	.094	12	78	8.78
29	6	.092	7	133	8.62
		·			
		,			
			·		

PARAMETER	FRED	Lin	
	******	MONTHLY AVERAGE	DADA MAX
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
TSS (mg/1)	EB	30	45
Boron (mg/l)	EB	N.A.	N:A.
TRC (ug/l)	Monthly	N.A.	190
BOD (mg/l)	Monthly	N.A.	'N.A.
O&G (mg/1)	Monthly	15	20

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

1 = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

F.(Date	BOD (mg/l)	TRC (ug/l)*	O&G (mg/)
19	***	20	5
25	32		
		•	
COMMEN	TS:		

File C170.0005

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CA-0320 01/1.1/05

PERMIT NO. MO-0098001 REPORTING PERIOD MAY, 2005 PAGE 2 of 4

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NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP' (MAX-9F	TRC
1	4.2	70	100
2	5.8	72	. 30 (2)
3	0	74	50
4	3.6	75	50
5	3.8	79	140
6	3.9	81	50
7	3.1	83	92
8	3	84	50
9	4	85	50
10	5.6	86	70
11	7.1	85	50
12	6.3	85	- 50
13	5.2	84	55
14	6	80	64
15	5.8	75	59
16	4.8	79	50
17	4	82	50
18	4.1	84	50
19	6.8	82	50
20	6.5	84	50
21	5.3	82	50
22	6.1	85	30 (2)
23	4.1	82	133
24	3.7	82	50
25	5.1	81	58
26	5.8	80	50
27	5.6	80	50
28	6.1	80	50
29	6.3	89	74
30	6.1	83 ¹	50
31	6.4	83	35 (2)

DATRO	TSS	TDS
2	1544	23
9	2414	86
16	1212	61
23	1608	25
30	2416	36 .

DATE	sulface (mg/l)	0&G (mg/l)
2	854	0.4
•		

PARAMETER	FREQ		MITS
	· · · · ·	MO.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(I)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
рН	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: <u>No pH excursions occurred this month</u> (2) By spectrophotometric method.

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File C170.0005

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD <u>MAY, 2005</u> PAGE <u>3 of 4</u>

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	HOD	
5	.00001	9	19	7.36

SANITARY WASTE

PARAMETERS		LIM	国際の受益的
	FREQ	MO AVG"	WKLY. AVG
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY(1)	70	110
BOD	QRTLY (I)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL-	FLOW	(mg/1)	O and G (mg/l)	COD (mg/l)	≓ip H
23	10	.011	2	2	20 (2)	8.31
9	11 ·	.048	17	3	25 (2)	8.18
23	12	.004	44	1	25 (2)	8.19
23	13	.004	47	3	20 (2)	8.35
	14	- NO DISCHARGE -				
.23	15	.007	12	1	18 (2)	7.53

OUTFALL 016

DATE	(MGD)	. TSS (mg/1)	0 and G (mg/1)	рН	TRC
4	1.6	8	Ż	7.95	50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETERS	FREQ	LIMITS	
		MOAVG	DAILY MAX: 1
FLOW	QRTLY.(1)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	15	20
рН	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETE	R FREQ	LIMITS		
1.	B. 12	MO. AVG.	· DAILY MAX	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	ORTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _

(2) Samples exceeded the 28 days from date of sample to time of

analysis.

File C170.0005

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PERMIT NO. MO-0098001 **REPORTING PERIOD MAY, 2005** PAGE 4 of 4

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NPDES MONITORING REPORT

"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."

Preparer

Reviewe pproved

Plant Manager

Page 4 of 4

CA0320 01/11/05

UOTCR 05-035

September 12, 2005

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for August, 2005. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998



PERMIT NO. MO-0098001 REPORTING PERIOD <u>AUGUST, 2005</u> PAGE <u>1 of 5</u>

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pH	PARAMETER	FREQ.	LIA	1ITS
2	6	.092	4.4	17	8.57		1	MONTHLY	
4	6	.052	4.9	48	6.65			AVERAGE	MAX.
6	6	.092	3.2	0.3	8.94	FLOW (MGD)	EB	N.A.	N.A.
7	7	.094	4	19	8.26	pH (STD)	EB	6.0-9.0	6.0-9.0
10	6	.091	8.4	29	8.54	TSS (mg/1)	EB	30	45
13	7	.093	4.1	32	8.90	Boron (mg/l)	EB	N.A.	N.A.
19	6	.093	4.5	17	8.81	TRC (ug/l)	Monthly	N.A.	190
23	7	.093	3.3	7	8.51	BOD (mg/l)	Monthly	N.A.	N.A.
26	6	.093	3.9	28	6.86	O&G (mg/1)	Monthly	15	20
28	7	.094	6	45	7.56	ALL SAMPLES	ANALYZEI	BY Ameren U	E Callaway
30	6	.093	4.8	56	6.89	Plant OPERATI	ONS LABOR	ATORY USIN	6
						METHODS SPE	CIFIED UNI	DER 10CSR 20	7.015
								5 .	
					· ·	SOURCES			
						I = WASTER	MONITOR T	ANK A	
				· · · · · · · · · · · ·		2 = WASTEN	MONITOR T	ANK B	
				·		3 = STEAM (JENERATOR	BLOWDOWN	Į.
· · · · ·						4 = SEC. LIQ	. WASTE MO	ONITOR TANK	(A
						5 = SEC. LIQ		•	
	· · · · · · · · · · · · · · · · · · ·					6 = LIQ. RAE			
· · · · · · · · · · · · · · · · · · ·			·			7 = LIQ. RAE			
·		······				EB = EACH BA			
	· · · · · · · · · · · · · · · · · · ·					Date B		TRC (ug/l)	0&G (mg/
						4			
			······			1		50	2.2
<u> </u>									
		······							
			-			00M (8) 70		•	
			·····			COMMENTS:			
				,					<u> </u>
•									

File C170.0005

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD AUGUST, 2005 PAGE 2 of 5

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC . (ug/l)
1	6	92	50
.2	. 8	95	50
3	8.8	91	<50
4	10	88	50
5	9.2	91	50
6	5.7	88	50
7	8.2	87	<50
8	7.7	90	50
9	6.7	92	50
10	5.3	.92	50
11.	6.3	92	50
12	7.0	89	50
13	7.9	90	50
14	8.4	85	50
15	8.4	- 84	. 77
16	7.8	85	50
17	4.3	87	50
18	7.1	92	50
19	7.3	94	50
20	8.0	88	50
21	9.3	90	50
22	6.9	90	<50
23	9.2	85	<50
24	5.6	85	<50
25	8.6	87	50
26	8.7	88	50
27	9.3	86	50
28	9.7	87	50
29	5.8	87	50
30	7.7	86	<50
31	8.2	.85	<50

DATE	TSS (mg/l)	TD\$ (mg/l)
1	48	2088
8	94	1340
15	62	1709
- 22	28	1448
29	25	616

DATE	Sulfate (mg/l)	0&G (mg/l)
8	1000	5.6
	•	

PARAMETER	FREQ	LIMITS	
		MO. AVG.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

File C170.0005

PERMIT NO. MO-0098001 REPORTING PERIOD AUGUST, 2005 PAGE 3 of 5

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL.007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	рН
18	.0006	18		
28	.0006	36	3	8.98
	<u> </u>	1		

SANITARY WASTE

PARAMETER	1	LIM	TS (mg/1)
	FREQ	MO. AVG.	WELY. AVG.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	.70	110
BOD	QRTLY (1)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTPALL	FLOW .(MGD)	TSS (mg/1)	0 and G (mg/l)	COD (mg/l)	pH
17	10	.065	9.6	1.5	33	8.59
17	11	.298	19.1	1.5	33	8.01
17	12	.023	39	27	38	8.84
.17	13	.026	7.3	1	33	8.77
17	14	.107	41	1	. 13	8.04
17	15	.043	19	1.5	35	8.65

STORM WATER RUNOFF PONDS

PARAMETER	FREQ	L	MITS
		MO. AVG.	DAILY MAX
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	N.A.	N.A.
pH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 016

DATE	MGD)	7.55 (mg/1)	O and G (mg/l)	þН	TRC (ug/l)
8	2.17	12	1.4	8.34	50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

COOLING TOWER BYPASS

PARAMETER	FREQ	L	MITS
		MO. AVG.	DAILY MAX
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (I)	30	100
O and G	QRTLY (1)	15	20
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	ORTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Outfall 016 TRC results on Attachment 1.

File C170.0005

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CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD<u>AUGUST, 2005</u> PAGE <u>4 of 5</u>

NPDES MONITORING REPORT

"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."

Preparer

Review oved Operations Manager

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CA0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD AUGUST, 2005 PAGE 5 of 5

NPDES MONITORING REPORT

OUTFALL 016 COOLING TOWER BYPASS AFTER ADDITION FREE AVAILABLE CHLORINE (FAC) AFTER ADD SAMPLE RESULTS AND TOTAL RESIDUAL CHLORINE (TRC)

Date	<u>TRC (mg/l)</u>
08/16/2005	50
08/17/2005	<50
08/18/2005	50
08/23/2005	92
	· · · · · · · · · · · · · · · · · · ·
	· · · ·
	· · · · · · · · · · · · · · · · · · ·

Page 5 of 5

CA0320 01/11/05

UOTCR 05-042

December 6, 2005

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for November, 2005. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) NOVEMBER, 2005 PAGE 1 OF 4

NPDES MONITORING REPORT

SOURCE DATIS TD. .08 10 7.15 2 7 8 6 .055 6 51 7.12 3 16 .091 67 8.08 7 6 .085 12 81 7.89 10 6 12 12 7 .093 3 8.86 15 6 .092 11 7 6.96 16 64 6.82 17 7 .092 18 88 6 .094 6 6.6 19 7 .085 22 238 7.23 22 6 .093 11 399 7.01 23 7 .094 17 136 7:27 13 25 .093 483 6.61 6 28 7 .093 8 Ó.3 6.84 2 29 6 .093 11 6.56

OUTFALL 001 RADWASTE SYSTEM

PARAMETER	FREO	21	16
		MONTELAT AVENAGE	DADAT: L'ANA
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
TSS (mg/1)	EB	30	45
Boron (mg/l)	EB	N.A.	N.A.
TRC (ug/l)	Monthly	N.A.	190
BOD (mg/l)	Monthly	N.A.	N.A.
O&G (mg/1)	Monthly	15	20

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

! = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

010	BOD(mell)	ATRC(USA)	(0&G (m/)
2	5	150	7
10		20	•
COMME	NTS:		

File C170.0005

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) NOVEMBER, 2005 PAGE 2 OF 4

and I state to a los

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DY TEL	(LIOT)	P	17-01P 17-01P	
1	0.4 (2)	63	<50
2	6.4		59	<50
3	3.8		59	<50
4	0 (2)	59	<50
5	0.6 (2)	62	⊲0
6	0.6 (2)	63	<50
7.	0.3 (2)	56 [.]	<50
	4.5		60	<50
. 9	5.7		65	<50
10	8.9		54	<50
11	6.3		57	<50
12	8.0		63	<50
13	6.2		56	<50
14	1.2		52	<50
15	0 (2	2)	50	<50
16	0 (2	2)	33	<50
17	0 (2	2)	55	<50
18	0.3 (2	2)	47	<50
19	0 (2	2)	61	<50
20	1.7		61	<50
21	1.6		65	<50
22	4.1		65	<50
23	4.2		69	ব্য
24	4.3		71	<50
25.	4.3	Ī	66	<50
. 26	4.3		75	<50
27	3.5		79	<50
28	4.8	Τ	71	<50
29	5.9		63	<50
30	5.63	Ι	65	<50

A NDATE	155 (17/11)	
7	253 (3)	336
14	7	308
21	43	1130
28	82	1120

DATE	5-17-25 4 (m ⁻¹¹)) (c	
14	168	1

PARAMETER + F)	FREQ	See Li	AITSEN SIN
		MO.T.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L.

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:

No pH excursions occurred this month	
(2) Dip Samples.	
(3) Basin Level very low and murky; hard to sample.	

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) NOVEMBER, 2005 PAGE 3 OF 4

e

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DAVE	FLOW (MGD)		BOD St.	S DH
. 16	.07	4	5	7.95
·		·		
			·	·
				····
	· · · · ·			

SANITARY WASTE

PARAMETER			ITS (mgl) Ref. State
	FREOS	MOMONAVC.	WKLYSAYC,
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	70	L10 ·
BOD	QRTLY (1)	45	65
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	(MGD)	TSS S(mg/1)	60, and G	CODE:	新
14	10	.038	5	l	40	8.36
14	11	.173	29	1	43	8.39
14	12	.013	28	3 (2)	23	9.42
14	13	.015	103	l	40	9.56
14	14	.062	69	<u> </u>	48	8.82
14	15	.025	11	1	50	8.38

OUTFALL 016

ANDATE N	FLOW (MGD)	101755 (<i>mp</i> /1)()	10 and G	PHILE AND AND AND AND AND AND AND AND AND AND	TRC (ug/l)
14	6.8	4 ·	1	8.32	<50
21					148

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	REAL REO. MIL	编编和 BEALIMITS WAR AND AND		
73631年17日1月1日		MO AVG	CDAILY/MAX5	
FLOW	QRTLY. (I)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
рН	QRTLY(I)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETE	RAMEREQUE	CARACTER LIMITS SERVICE		
希利拉斯 尼特的		SMOXAVG3	DAILY/MAXS	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	ORTLY (I)	NA	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:

(2) Sample for oil and grease taken 11-09-05.

File C170.0005

Page 3 of 4

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) NOVEMBER, 2005 PAGE 4 OF 4

7

NPDES MONITORING REPORT

"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."

Preparer

Spproved Rev

Plant Manager

Page 4 of 4

CA0320 01/11/05

UOTCR 06-009

March 10, 2006

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for February, 2006. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

2 C. A. Riggs

CAR/RSB:lmb

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>FEBRUARY, 2006</u> PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

pare e	SOURCE	KLOWA (MGD)		Alizant Standard	pH -	DE PAVE		1923-1923	1.
3	6	.081	20	21	8.42			skostrini Nanoda	
16	7	.094	15	3	8.92			CONTRACTOR	
24	6	.092	12	8	6.37	FLOW (MG	D) EB	N.A.	N.
			-			pH (STD)	EB	6.0-9.0	6.0
						TSS (mg/1)	EB	30	4
				_		Boron (mg/l) EB	N.A.	N.
						TRC (ug/l)	Monthly	N.A.	19
						BOD (mg/l)	Monthly	N.A.	N.
						O&G (mg/1)) Monthly	15	2
						ALL SAMP	LES ANALYZEI	BY Ameren U	E Callav
				· · · · · · · · · · · · · · · · · · ·		Plant OPER	ATIONS LABOR	ATORY USING	3
		· · · · · · · · · · · · · · · · · · ·				METHODS	SPECIFIED UNI	DER 10CSR 20-	7.015
						SOURCES			
				······			TE MONITOR TA	ANK A	
							TE MONITOR TA		
	÷								
							M GENERATOR		
							LIQ. WASTE MO		
						5 = SEC.	LIQ. WASTE MO	DNITOR TANK	В
						6 = LIQ.F	RADWASTE DIS	CHARGE TAN	ΚA
						7 = LIQ.F	ADWASTE DIS	CHARGE TAN	КB
						EB = EACH	I BATCH		
					·····				o. Coo
						3	9.99.99.99.99.90.97.97.97	<50	12
						16	16	·····	
						COMMENT	<u>.</u>		
						COMMENT			
					······		<u></u>		

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>FEBRUARY, 2006</u> PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

.

8499753776777937 8 11	Arrow		TIKC 1
-			
1	4.2	73	<u>111</u>
2	3.4	70	53
3	4.3	67	63
4	4.2	61	94
5	4.3	65	104
6	4.4	63	<50
7	4.3	66	<50
8	4.3	64	<50
9	4.2	63	87
10	4.3	63	68
11	4.3	60	68
12	4.2	55	155
13	2.8	62	185
14	4.1	71	66
15	4.1	72	<50
16	4.9	73	<50
17	6.8	65	64
18	4.4	59	<50
19	4.3	62	133
20	4.2	67	114
21	4.1	72	<50
22	4.3	68	59
23	4.9	71	114
24	3.6	.74	<50
25	4.2	67	133
26	4.7	66	117
27	5.0	76	139
28	4.0	78	<50
- 20	4.0	/0	
			لنبسيب

4000 2384
2168
2028
2024

6	1226	14	
			-

		1995 - 1997 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY (1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>FEBRUARY, 2006</u> PAGE 3 OF 4

NPDES MONITORING REPORT

<u>OUTFALL 003</u> WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DIE	.FLOW	(mg/l)	+ BOD+++ (mg/1)	PH -
9	.013	4	9	8.26
		·		······
				· · · · · · · · · · · · · · · · · · ·
		\$		
	1			

SANITARY WASTE

PARAMETER			HTS (mPA) - States
FLOW	ORTLY (1)	N.A.	NA.
TSS	QRTLY (1)	70	110
BOD	QRTLY (1)	45	65
pH	ORTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

<u>OUTFALL 009</u> INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

	Conntie			0 and Gr	COD	N DE
16	10	.002	7	2	15	8.44
16	11	.011	32	2	40	8.29
6	12	.001	116	1	23	8.57
(1)	13					
16	14	.004	22	2	24	8.10
6	15	.002	8	1	26	8.71

OUTFALL 016

D	LLOR MCD	TSS (mg/L)	Connace Constant	≥ pH₂	TRCS Taglo
16	3.29	10	1	8.32	<50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

EA RAMETE	Ro Marker (2011	ALTS & BOOM
		MONACO	60 YA AGAM
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	15	20
pH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

(P.R.MISTIC		2 	
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (I)	15	20
pH	QRTLY(1)	6.0 - 9.0	6.0 - 9.0
TRC	ORTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: : (1) No Discharge noted.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>FEBRUARY, 2006</u> PAGE 4 OF 4

NPDES MONITORING REPORT

"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."

Preparer

Approved Plant Manager

> CA0320 01/11/05

Page 4 of 4

UOTCR 06-0021

June 7, 2006

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for May 2006. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:mad

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) MAY 2006 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

nin i	en konstantingen som				e en
1	7	.093	15	2	8.76
10	.6	.089	12	20	8.73
18	7	.091	31 (1)	2	8.91
21	6	.091	20	97	8.40
28	7	.090	26	202	6.05
		,			
				·	
	,				
				· · ·	:
	······				
~					
	<u></u>	· · · ·			
			·····		
	-			•	
	•				
	* e				



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) MAY 2006 PAGE 2 OF 4

NPDES MONITORING REPORT

N. OKOR	n ar thirt an an Charles an		
	THOMEON A		
<u> </u>	8.0	79	- 51
2	3.3	84	50
3	3.5	8.4	<50
4	3.9	78	<50
5	5.9	76	<50
6	4.3	76	<50
7	3.3	79	<50
. 8	3.5	80	<50
9	3.4	86	50
10	5.7	83	50
11	2.0	77	50
12	3.0	67	132
13	3.3	73	107
14	2.9	75	99
15	2.6	79	61
16	2.5	82	<50
17	3.5	83	50
18	1.6	69	<50
19	. 0	65	189
20	0	62	61
21	0.1	63	158
22	0.3	63	<50
23	0	63	<50
24	0	64	<50
25	0	70	<50
26	0	70	<50
27	0	71	<50
28	0	73	<50
29	0	74	<50
30	0	74	<50
31	2.0	78	50

OUTFALL 002 COOLING TOWER BLOWDOWN

TOTE		
1	39	2080
8	48	1972
15	59	1444
22	36	1904
29	41	992

	Sulfae A Mine S	
1	824	0.4

OR ML UR		MO -	
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY (1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110° F	110°F
рН	CONT.	.6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursion occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) MAY 2006 PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

4	.031	3	2	7.58
) 	ļ	

SANITARY WASTE

PARAMILTER			UNICOTO SE DE
	0.00000		CARKO AVG
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	70	110
BOD	QRTLY (1)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

<u>OUTFALL 009</u> INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

07.07 	needer.					
2	10	.020	4	5	25	8.56
2	11	.094	6	2	47	8.17
2	12	.007	26	1	20	8.15
2	13	.008	5	1	27	7.9
2	14	.034	23	3	32	8.25
2	15	.014	4	1	30	8.79

OUTFALL 016

DATE S		en ester Cardon			
8	2.25	12	2	7.95	.<50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

	(17.0) S		1051107 10511107	0.000
FLOW	ł	QRTLY. (1)	N.A.	N.A.
TSS	\$ر	QRTLY (1)	N.A.	N.A.
COD		QRTLY (1)	• N.A.	N.A.
O and G		QRTLY (1)	15	20
pН		QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

1			
FLOW	ORTLY (1)	N A	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: See Attachment 1 for additional TRC results for Outfall 016

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) MAY 2006 PAGE 4 OF 4

NPDES MONITORING REPORT

"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."

Review

Preparer

Approved

Plant Manager

CA0320 01/11/05

ATTACHMENT 1 DATE: MAY 2006

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
2	116
3	154
4	163
9	101
11	134
15	<50

Chemical Analysis Report Laboratory Services Department AmerenUE

CC: M. Bollinger 602

Requestor or Contact:	Ron Boutelle
Department:	Callaway
Date Received:	22-May-06

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 10 Lab Sample No.: UU09135 Report Date: 25-May-06 Login Record File: 06050403

Collection Date: 02-May-06 Collection Time: 3:50 PM Original Sample ID: 010

Parameter	Results	Units	MDL	Analysis Code	Analyst
COD	25	mg/L	1	U3013A	ARD

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 11 Lab Sample No.: UU09136 Collection Date: 02-May-06 Collection Time: 4:00 PM Original Sample ID: 011

Parameter Results Units MDL Code Analyst COD 47 mg/L 1 U3013A ARD					Analysis	
	Parameter	Results	Units	MDL	Code	Analyst
COD 47 mg/L 1 U3013A ARD	<u></u>	······································		· · · · · · · · · · · · · · · · · · ·		······································
	COD	47	mg/L	1	U3013A	ARD

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 12 Lab Sample No.: UU09137 Collection Date: 02-May-06 Collection Time: 4:25 PM Original Sample ID: 012

Parameter	Results	Units	MDL	Analysis Code	Analyst
COD	20	mg/L	1	U3013A	ARD

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 13 Lab Sample No.: UU09138 Collection Date: 02-May-06 Collection Time: 4:15 PM Original Sample ID: 013

				Analysis	
Parameter	Results	Units	MDL	Code	Analyst
COD	27	mg/L	1	U3013A	ARD

Requestor or Contact: Ron Boutelle Department: Callaway Date Received: 22-May-06

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 14 Lab Sample No.: UU09139 Report Date: 25-May-06 Login Record File: 06050403

Collection Date: 02-May-06 Collection Time: 3:40 PM Original Sample ID: 014

				Analysis	
Parameter	Results	Units	MDL	Code	Analyst
COD	32	mg/L	1	U3013A	ARD
			•		

General Sample Description: Callaway Plant NPDES Sample Sample Point: CAL Stormwtr Runoff Outfall 15 Lab Sample No.: UU09140 Collection Date: 02-May-06 Collection Time: 3:45 PM Original Sample ID: 015

Parameter Results Units MDL C

Comments:

Carol Zale Approved By:

Page 2 of 2

PO Box 620 Fulton, MO 65251

UOTCR060030

September 14, 2006

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report



Attached is the NPDES Monthly Report for August 2006. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:mad

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 8/6/2006_ PAGE _1_ OF _4_

NPDES MONITORING REPORT

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	<i>p</i> H	PA	RAMETER	FREQ.	u	MITS
7	6	.093	11	97	8.52	1.42	2.31 · · ·		MONTHL	Y ZDAILY
<u>14</u> 21	7 6	.092	13 24	303	8.75 8.58	· •	eter (2007) Ann an a		. 127.9	
21	7	.093	7	3	8.58		OW (MGD)	EB	N.A.	<u>N.A.</u>
31		.093	18	3_	8.8		(STD)	EB	6.0-9.0	6.0-9.0
31	6	.093	10	4	0.0		S (mg/1)	EB	30	45
· · · ·		·			<u> </u>	BO	ron (mg/l) C (ug/l)	EB Monthly	N.A. N.A.	<u>N.A.</u> 190
					<u> </u>	1	D (mg/l)	Monthly	N.A.	N.Ā.
			· · · · · · · · · · · · · · · · · · ·							
						1.	G (mg/1)	Monthly	15	20
									D BY Ameren	-
						Pla	nt OPERATI	ONS LABO	RATORY USI	٩G
						ME	THODS SPI	CIFIED UN	DER IOCSR 2	0-7.015
		-								
					1	<u>so</u>	URCES			
		· · ·			1	1	= WASTE	MONITOR T	ANK A	
		·····			+	2 :	= WASTE	MONITOR T	'ANK É	
			÷		+				RBLOWDOW	N ·
					<u></u>		- ·		ONITOR TAN	
ابنج شب	<u></u>				·		-		ONITOR TAN	
			······						SCHARGE TA	
										
									SCHARGE TA	NKB
							= EACH BA			
						1	Date BC	DD (mg/l)	TRC (ug/l)	O&G (mg/l)
							7	8	<50	5
	:									· .
					1	CO	MMENTS: _			
					<u> </u>]			·		
					<u> </u>]					
			· · · · · · · · · · · · · · · · · · ·	<u></u>	├ ────┤					
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OUTFALL 001 RADWASTE SYSTEM

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ______8/6/2006____ PAGE __2__ OF __4__

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	9.6	97	<50
2	7.9	98	<50
3	8.8	92	69.
4	5.1	91	65
5	4.9	92	65
6	5.0	96	72
7	6.4	97	85
8	5.1	95	<50
9	5.2	99	<50,
10	6.3	95	<50
11	5.0	94	70
12	5.8	93	84
13	6.5	95	61
14	7.1	95	<50
15	3.7	91	77
16	5.9	90	60
17	4.8	96	179
18	5.3	97	88
19	6.9	95	57
20	6.5	92	<50
21	7.3	93	62
22	4.2	92	76
23	5.9	93	<50
24	5.3	93	76
25	8.0	93	96
26	5.8	94	81
27	6.1	94	67
28	6.6	91	92
29	5.4	89	<50
30	1.7	87	<50
31	4.3	88	<50

DATE	TSS (mg/1)	TDS (mg/1)
7	54	2084
14	56	2140
21	70	1676
28	54	1880

DATE	Sulfate (mg/1)	0&G (mg/1)
7	1532	3

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
рН	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _3_ OF _4_

8/6/2006___

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	pH
.0001	17	4	6.88
		}	
		<u>├</u> ───┤	
	(MGD)	(MGD) (mg/1)	(MGD) (mg/1) * (mg/1)

SANITARY WASTE

PARAMETER		LIMITS (mg/1)			
	FREQ.	MO. AVG.	WKLY. AVG.		
FLOW	QRTLY (1)	N.A.	N.A.		
TSS	QRTLY (1)	70	110		
BOD	QRTLY (1)	45	65		
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	(mg/1) ;	0 and G (mg/1)	COD (mg/l)	рН
3	10	.013	32	1	42	8.61
3	11	.062	13	1	27	8.44
3	12	.005	22	3	32	9.47
28	13	.005	38	2	15	7.58
28	14	.023	12	5	17	7.76
	15			No Discharge	e.	

OUTFALL 016

DATE	FLOW (MGD)	TSS 🚿 (mg/1)	O and G (mg/1)	рН	TRC (ug/l)
9	3.5	12	1.0	8.46	<50
·	-				

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREO	LIMITS &			
		MO: AVG.	DAILY MAX.		
FLOW	QRTLY.(1)	N.A.	N.A.		
TSS	QRTLY (1)	N.A.	N.A.		
COD	QRTLY (1)	N.A.	N.A.		
O and G	QRTLY (1)	15	20		
pH	QRTLY(1)	>6.0	>6.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER :	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
pH _	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: After add TRC results for outfall 016 on Attachment 1.



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____8/6/2006 PAGE _4_ OF _4__

NPDES MONITORING REPORT

"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."

Preparer

Approved

Plant Manager

Page 4 of 4

CA0320 01/11/05

ATTACHMENT 1 8/6/2006

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

<u>Date</u>	TRC (ug/ml)
17	179
22	66
23	<50
24	<50
28	115
29	<50
	178

ATTACHMENT 1

PO Box 620 Fulton, MO 65251

UOTCR060037

December 18, 2006

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

meren UE

Attached is the NPDES Monthly Report for November 2006. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:sll

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998

a subsidiary of Ameren Corporation

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 11-06 PAGE 1 OF 4

NPDES MONITORING REPORT

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pН	PARAM	ETER	FREQ.	Ш	MITS
8	6	.092	13	29	8.9				MONTHL	Y DAILY
9	7	.093	12	· 1	8.8] [AVERAGE	MAX.
13	6	.092	10	9	7.73	FLOW (N	(GD)	EB	N.A.	N.A.
22	7	.094	10	5	6.93	pH (STD)		EB	6.0-9.0	6.0-9.0
28	6	.091	16	3	7.11	TSS (mg/	1)	EB	30	45
						Boron (m		EB	<u>N.A.</u>	N.A.
						TRC (ug/	l)	Monthly	N.A.	190
						BOD (mg	/l)	Monthly	N.A.	N.A.
						O&G (mg	/1)	Monthly	15	20
						ALL SAN	PLES A	NALYZEI	DBY Ameren	UE Callaway
						Plant OPI	RATIO	NS LABOR	ATORY USE	٩G
						METHOI	DS SPEC	IFIED UNI	DER 10CSR 20	-7.015
						SOURCE	<u>s</u>			
] 1 = WA	STE MO	ONITOR T.	ANK A	
						2 = WA	STE M	ONITOR T	ANK B	
					·] 3 = ST	EAM GE	NERATOR	BLOWDOW	N
						4 = SE	C. LIQ. V	VASTE MO	ONITOR TAN	KA
						5 = SE	C. LIQ. V	VASTE MO	DNITOR TAN	КB
<u></u>						6 = LIC). RADV	ASTE DIS	CHARGE TA	NK A
					<u> </u>	7 = LIC	. RADW	ASTE DIS	CHARGE TA	NK B
<u></u>						EB = EA	CH BAT	СН		
						Date	BOI	(mg/l)	TRC (ug/l)	O&G (mg/i)
						8		19	10	5
]				
					· · · · · · · · · · · · · · · · · · ·	COMME	NTS:	L		
·						1				
<u>. </u>						1				
	1					1				
لير				┠		1				

OUTFALL 001 RADWASTE SYSTEM

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 11-06 PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

	[
DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	6.8	70	50 (2)
2	6.2	70	64
3	6.2	74	82
4	7.2	74	50 (2)
5	7.1	76	50 (2)
6	4.2	75	50 (2)
7	4.4	76	50 (2)
8	5.3	84	50 (2)
9	2.8	84	50 (2)
10	6.0	85	80
11	7.3	68	105
12	6.8	74	54
13	5.0	74	50 (2)
14	6.0	75	50 (2)
15	6.7	75	50 (2)
16	7.0	70	50 (2)
17	6.6	74	50 (2)
18	7.9	69	50 (2)
19	5.7	69	50 (2)
20	6.1	69	50 (2)
21	1.5	76	85
22	6.0	79	86
23	4.5	81	59
24	4 <i>A</i>	83	74
25	5.2	84	76
26	6.3	83	50 (2)
27	2.8	78	50 (2)
28	5.9	. 81	50 (2)
29	5.8	82	50 (2)
30	5.0	61	50 (2)

DATE	TSS (mg/1)	TDS (mg/1)
6	93	1582
13	68	1732
20	46	1708
27	45	2188

and the second
92 3

PARAMETER	FREQ.	LIMITS		
,		MO. AVG.	DAILY MAX	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (I)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
рН	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month

(2) <LOQ

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 11-06 PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

FLOW (MGD)	T\$\$ (mg/1)	BOD (mg/1)	pH
.002	4	4	7.11
	(MGD)	(MGD) (mg/1)	(MGD) (mg/1) (mg/1)

SANITARY WASTE

PARAMETER	Γ	LIMITS (mg/1)		
	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	COD (mg/l)	pН
7	10	.033	22	1	-	7.99
7	11	.153	68	2	-	8.12
7	12	.012	32	5	-	8.39
27	10	-	-	-	27	-
27	11	-	-	-	17	-
27	12	-	-	-	15	-

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/1)	рĦ	TRC (ug/l)
7	1.44	19	3	8.26	<50
	,				

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS	
		MO. AVG.	DAILY MAX.
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY(1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	15	20
pН	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY(1)	N.A.	N.A.	
TSS	QRTLY(1)	30	100	
O and G	QRTLY (1)	15	20	
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY(1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Outfall 016 TRC results on Attachment 1 *No discharge noted on outfalls 13, 14, and 15.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 11-06 PAGE 4 OF 4

NPDES MONITORING REPORT

"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."

Reviewer Preparer

Approved

Plant Manager

CA0320 01/11/05

ATTACHMENT 1 November 2006

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
10	164 <50
28	<50
	+
· · · · · · · · · · · · · · · · · · ·	
·	· · · · · · · · · · · · · · · · · · ·

ATTACHMENT 1

PO Box 620 Fulton, MO 65251

UOTCR 07-0016

March 14, 2007

Steven S. Weiss Mail Code 602

Ameren UE

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for February 2007. Results are noted in comment section of each Outfall.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:sll

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 02/07 PAGE _1_ OF _4__

____

NPDES MONITORING REPORT

SOURCE DATE FLOW TSS Boron pН PARAMETER FREQ. LIMITS (MGD) (mg/1) (mg/l) 2 7 .083 10 25 8.84 MONTHLY AVERAGE 8 6 .094 10 14 6.25 13 7 .092 25 24 8.68 FLOW (MGD) EB N.A. 16 .093 6 4 44 8.57 6.0-9.0 pH (STD) EB 18 7 .095 5 21 8.7 TSS (mg/1) EB 30 20 .094 5 6 41 8.42 Boron (mg/l) EB N.A. TRC (ug/l) Monthly N.A. 21 7 .093 2 23 7.16 BOD (mg/l) Monthly N.A. 23 .094 6 4 15 8.7 O&G (mg/1) Monthly 15 ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015 SOURCES 1 = WASTE MONITOR TANK A 2 = WASTE MONITOR TANK B . 3 = STEAM GENERATOR BLOWDOWN 4 = SEC. LIQ. WASTE MONITOR TANK A 5 = SEC. LIQ. WASTE MONITOR TANK B 6 = LIQ. RADWASTE DISCHARGE TANK A 7 = LIQ. RADWASTE DISCHARGE TANK B EB = EACH BATCH BOD (mg/l) Date TRC (ug/l) O&G (mg/l) 2 30 <10 •• COMMENTS:

OUTFALL 001 RADWASTE SYSTEM

DAILY

MAX.

N.A.

6.0-9.0

45

N.A.

190

N.A.

20

4

_......

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 02/07 PAGE 2_____OF

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	8.2	63	<50
2	3.6	61	<50
3	6.2	58	<50
4	4.2	63	84
5	4.5	58	<50
6	4.4	72	<50
7	4.4	59	<50
8	4.6	60	<50
9	4.4	62	<50
10	5.0	62	88
11	4.6	65	54
12	4.5	65	<50
13	4.5	62	<50
14	5.0 ·	56	<50
15	4.5	57	<50
16	4.0	66	69
17	5.5	65	<50
18	4.3	67	80
19	4.7	76	53
20	5.1	74	<50
21	5.0	77	68
22	5.8	72	<50
23	5.2	76	<50
24	5.5	78	<50
25	4.3	72	79
26	7.9	68	<50
27	8.7	71	<50
28	7.4	81	<50

DATE	TSS (mg/l)	TDS (mg/l)
5	50	1824
12	64	2076
19	74	2016
26	63	1352
26	63	

DATE	Sulfate (mg/l)	0&G (mg/1)
5	988	2

PARAMETER	FREQ	LIMITS		
· · · · · · · · · · · · · · · · · · ·		MO. AVG.	DAILY MAX	
FLOW	CONT	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110 ° F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _____ No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _3_ OF _4_

02/07

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	pH
8	.003	2	0	8.56
		·		
]			

SANITARY WASTE

PARAMETER		LIM	TS (mg/1)
	FREQ.	MO. AVG.	WKLY. AVG.
FLOW	QRTLY(1)	N.A.	N.A.
TSS	QRTLY (1)	70	110
BOD	QRTLY(1)	45	65
pH	QRTLY(1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/1)	COD (mg/l)	pН
6	11	.154	23	1	20	7.72
6	12	.012	4	2	22	9.01
28	13	.014	37	3	27	9.08
28	14	.055	119	3	22	8.32
6	15	.022	9	1	20	8.20
				4		

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	FREQ. LIM	
		MO. AVG.	DAILY MAX.
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY(1)	15	20
pH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS	
		MO. AVG.	DAILY MAX
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	ORTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 016

O and G

(mg/1)

7

pН

8.21

TRC

(ug/l)

<50

TSS

(mg/1)

15

FLOW

(MGD)

3.7

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

DATE

5

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

COMMENTS:

.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____02/07_____ PAGE _4__ OF _4__

NPDES MONITORING REPORT

"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."

Approved

Plant Manager

UOTCR 07-0032

June 12, 2007

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report

Attached is the NPDES Monthly Report for May, 2007. Results are noted in comment section of each Outfall.

Outfall 015 COD was missed on 5-07-07, and the Outfall did not discharge the rest of the month.

Please let me know if you have any questions or need additional information.

C. A. Riggs

CAR/RSB:sll

Attachments

cc: G. P. Gary (470) C170.0005 R/C Clerk A160.0998

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 05/2007 PAGE _1_ OF _5_ 05/2007

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)(*1)	Boron (mg/1)	pН	PARAMETE	R FREQ.	L LI	MITS
2	7	.092	28	216	7.08			MONTHL	Y DAIL
7	6	.092	19	69	6.97			AVERAGE	S MAX.
10 ·	7	.091	21	62	6.03	FLOW (MGD) EB	N.A.	N.A.
11	6	.090	7	8	6.84	pH (STD)	EB	6.0-9.0	6.0-9.0
12	7	.093	8	8	7.74	TSS (mg/1)	EB	30	45
14	6	.092	16	201	6.34	Boron (mg/l)	EB	N.A.	N.A.
16	. 7	.093	5	300	6.22	TRC (ug/i)	Monthly	N.A.	190
17	6	.091	12	. 184	7.32	BOD (mg/l)	Monthly	N.A.	N.A.
19	7	.091	10	218	7.66	O&G (mg/1)	Monthly	15	20
22	6	.091	18	94	8.04	ALL SAMPLI	S ANALYZE	D BY Ameren	UE Callaway
28	6	.093	· 40 (*1)	3	8.13	Plant OPERA	TIONS LABO	RATORY USI	١G
29	7	.092	10	20	6.28	METHODS S	PECIFIED UN	DER 10CSR 20	0-7.015
30	.6	.090	12	20	8.56				
		.070	12		0.50	SOURCES			
				· · · · · · · · · · · · · · · · · · ·	·····	I = WASTE	MONITOR T	ANK A	
			· · · ·			2 = WASTE	MONITOR T	ANK B	
						3 = STEAM	GENERATO	R BLOWDOW	N
						4 = SEC. LI			
		· · · · ·				5 = SEC. LI	-		
						6 = LIQ. RA	-		•
						-		•	
						7 = LIQ.RA		CHARGE TA	NKB
						EB = EACH I			· .
						Date I	SOD (mg/l)	TRC (ug/l)	O&G (mg
						2	7	10	4
						COMMENTS:	k		
						(*1) Monthly	average for TS	S was 15.8 mg	<u>/L</u>
1									
			· · · · · ·						

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 05/2007 PAGE 2 0F 5

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
. 1	(*2)0	68	<50
2	4.3	63	<50
3	(*2)0	65	<50
4	(*2) 0	71	<50
5	(*2) 0	69	<50
6	(*2)0	71	<50
7	(*2) 0	66	<50
8	1.0	72	<50
9	(*2) 0	72	<50
10	(*2)0	- 78	<50
11	(*2)0	81	64
12	0.5	85	<50
13	(*2) 0	85	<50
14	(*2) 0	89	<50
15	5.2	88	<50
16	1.6	80	<50
17	1.8	78	<50
18	4.0	4.0 80	
19	3.5	83	<50
20	2.9	84	<50
21	4.1	85	<50
22	1.7	86	79
23	5.1	87	<50
24	5.0	87	<50
25	4.5	83	53
26	5.4	86	73
27	4.3	87	98
28	4.6	87	<50
29	4.1		
30	7.2	87	57
31	3.7	87	<50

DATE	TSS (mg/l)	TDS (mg/1)
2	10	396
7 (*2)	15	320
14 (*2)	53	1458
21	115	1390
28	34	2188

Sulfate (mg/1)	(mg/1)
776	0.1
	(mg/1)

PARAMETER	FREQ.	LI	MITS
·		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
рН	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month

(*2) All samples taken by dip sample from C Circ Water Pump Bay due to no discharge.____

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE <u>3</u> OF <u>5</u>

05/2007

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/1)	pН
19	.0001	12		8.47
31	.0001		5.1	
	-			
· · · · · · · · · · · · · · · · · · ·				
		<u> </u>		· · ·

SANITARY WASTE

PARAMETER		LIMITS (mg/1)		
	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
рH	ORTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	COD (mg/l)	рH
7	10	.042	16	0	(*3)	8.14
7	11	.192	10	1	(*3)	7.64
7	.12	.015	18	3	(*3)	9.00
7	13		No	Discharge		
7	14	.069	98	. 1	(*3)	7.78
7	15	.028	26	× 1	(*4)	9.00

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	pН	TRC (ug/l)
17	2.27	8	7	7.7	<50

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY(1)	N:A	N.A.	
COD	QRTLY(1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY(1)	N.A.	N.A.	
TSS	QRTLY(1)	30	100	
O and G	QRTLY (1)	15	20	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

COMMENTS: See Attachment 1 for additional outfall -016 TRC analyses.

(*3) see page 4 of 5 for COD values.

(*4) Outfall 15 COD was missed on 5-07-07 and outfall did not discharge the rest of the month.



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE __4__ OF __5__

05/2007

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

SANITARY WASTE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	pН
	Not	Applicable		

PARAMETER		LIMITS (mg/1)		
	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	ORTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	CO D (mg/ l)	pH
19	10	.042			30	
19	11	.192			39	
19	12	.015			42	
31	14	.069			25	

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/1)	pH	TRC (ug/l)]

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:

File C170.0005

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE _5_ OF _5_

NPDES MONITORING REPORT

05/2007

"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."

Preparer

Reviewer Plant Manager



ATTACHMENT 1

DATE: _____ 05/2007

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
8	<50
29	<50
31	<50 <50 <50
	· · · · · · · · · · · · · · · · · · ·

ATTACHMENT 1

Ameren Services

Environmental, Safety & Health 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com

October 22, 2007

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602

Re: Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001 Third Quarter, 2007 NPDES Discharge Monitoring Report (DMR)



CERTIFIED MAIL

Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the *Third Quarter 2007 (July, August, and September)* DMR:

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Environmental, Safety & Health Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

bcc: R.S. Boutelle (CA-460) JCP / SSW WQ311221

a subsidiary of Ameren Corporation

One Ameren Plaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

1004289000361167040

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)_____07/2007 PAGE 1__OF _4___

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)(*1)	Boron (mg/l)	pН
3	7	.094	9	30	7.82
6	6	.094	17		8.90
13	1	.092	9	4	8.75
20	6	.094	lO	1	8.69
			$= \frac{1}{2} \left[\frac{1}{2} \frac{1}{2} \right] $		
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PARAMETER	FREQ.	LIMITS		
		MONTHLY AVERAGE	DAILY MAX.	
FLOW (MGD)	EB	N.A.	N.A.	
pH (STD)	EB	6.0-9.0	6.0-9.0	
TSS (mg/i)	EB	30	45	
Boroa (mg/l)	EB	N.A.	N.A.	
TRC (ug/l)	Monthly	N.A.	190	
BOD (mg/l)	Monthly	N.A.	N.A.	
0&G (mg/1)	Monthly	15	20	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING

METHODS SPECIFIED UNDER 10CSR 20-7.015

DURCES

1 = WASTE MONITOR TANK A

2 - WASTE MONITOR TANK B

= STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
· 3		<10	7
20	10.5		
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		

COMMENTS:

File C170.0005

Page 1 of 4

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____07/2007 PAGE _2_ OF _4__

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

	<u></u>		
DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	5.3	86	<50
2	4.9	87	<50
3	6.4	90	<50
4	4.4	91	<u><0</u>
5	6.5	91	113
6	4.0	89	<50
7	2.7	91	<50
8	4.0	92	<50
9	4.0	92	<50
10	3.9	91	<50
11	4.0	87	<50
12	4.2	88	<50
13	4.4	88	<50
14	5.9	90	<50
15	5.5	90	<50
16	5.3	92	<50
.17	5.1	91	83
18	7.8	93	<50
19	6.0	93	178
20	3.4	89	116
21	6.0	87	127
22	45	87	<50
23	4.5	88	<50
24	4.9	90	<50
25	1.9	91	111
26	3.8	92	87
27	4.8	93	142
28	6.3	91	124
29	7.3	91	78
30	7.4	90	93
31	5.8	90	<50

DATE		SS g/1)	TDS (mg/I)
2		19	2002
9		16	2224
16		52	2128
23		18	1624
30		16	2032
DATE	Sulfate (mg/1)	0&G (mg/l)	
No	Sample	Required	

.

PARAMETER	FREQ.	LI	MITS
		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(I)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110 ° F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ъ.

ALL SAMPLES ANALYZED BY America UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____ PAGE _3_ OF _4__

FLOW

(MGD)

No

DATE

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

pH

BOD

(mg/1)

Required

07/2007

SANITARY WASTE

PARAMETER		LIM	TS (mg/1)
	FREQ.	MO. AVG.	WALY. AVG.
FLOW	QRTLY (I)	N.A.	N.A.
TSS	QRTLY (I)	70	110
BOD	QRTLY (I)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

OUTFALL 007

TSS

(mg/1)

Samples

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D {mg/ l)	pН
						
		No	Samples	Required	· · · · · ·	
	·					

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	рĤ	TRC (ug/l)
	No	Sample	Required	<u>.</u>	

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	L	IMITS
		MO. AVG.	DAILY MAX.
FLOW	QRTLY. (I)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	15	20
pH	QRTLY(I)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS	
		MO. AVG.	DAILY MAX.
FLOW	QRTLY(1)	N.A.	N.A.
TSS	QRTLY (I)	30	100
O and G	QRTLY(I)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _See Attachment I for Outfall 16 TRC.

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _______07/2007 PAGE __4__ OF __4__

NPDES MONITORING REPORT

"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."

Ronald S Doutths Preparer Reviewer

Approved

Plant Manager

CA0320

Page 4 of 4

ATTACHMENT 1 DATE: _____072007____

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

<u>Date</u>	<u>TRC (ug/ml)</u>
3	<50
4	<50
6	<50
19	<50
24	119
25	<50
26	<50
27	<50
31	<50

ATTACHMENT I

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____08/2007 PAGE __1__ OF __4__

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)(*1)	Boron (mg/1)	рH
3	7	.092	_17	0.5	8.68
9	6	.092	9	0.5	8.76
24	7	.093	9	6	8.20
25	6	.091	7	0.5	8.34
31	7	.092	7	0.5	8.60
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PARAMETER	FREQ.	LIMITS		
	tin di tin di tin tin	MONTHLY AVBRAGE	DAILY MAX.	
FLOW (MGD)	EB	N.A.	N.A.	
pH (STD)	EB	6.0-9.0	6.0-9.0	
TSS (mg/l)	EB	30	45	
Boron (mg/l)	EB	N.A.	N.A.	
TRC (ug/l)	Monthly	N.A.	190	
BOD (mg/l)	Monthly	N.A.	N.A.	
O&G (mg/1)	Monthly	15	20	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

SOURCES

I = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

- 3 = STEAM GENERATOR BLOWDOWN
- 4 = SEC. LIQ. WASTE MONITOR TANK A
- 5 = SEC. LIQ. WASTE MONITOR TANK B
- 6 = LIQ. RADWASTE DISCHARGE TANK A
- 7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
3	24	20	11

COMMENTS:

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ______08/2007 PAGE __2__ OF __4__

NPDES MONITORING REPORT

FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
4.0	91	-50
4.3	92	<50
4.3	93	<50
5.6	93	83
5.7	94	90
6.0	94	168
7.7	95	60
6.3	95	<50
75	94	74
3.9	93	<50
3.8	95	<50
3.7	94	55
	92	<50
3.9	95	52
4.1	95	<50
5.4	95	50
10.4	93	80
5.4	94	<50
5.4	94	<50
4.0	93	<50
4.7	94	<50
4.3		<50
4.5	94	<50
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91	<50
	91	<50
	90	<50
		<50
4.7	93	<50
		<u>ය</u> 0
		69
		<50
	(MGD) 4.0 4.3 4.3 5.6 5.7 6.0 7.7 6.3 7.5 3.9 3.8 3.7 3.5 3.9 4.1 5.4 10.4 5.4 10.4 5.4 10.4 5.4 4.0 4.7 4.3 4.5 4.5 4.1 5.9 5.7	(MGD) (MAX % 4.0 91 4.3 92 4.3 93 5.6 93 5.7 94 6.0 94 7.7 95 6.3 95 7.5 94 3.9 93 3.8 95 3.7 94 3.5 92 3.7 94 3.5 92 3.7 94 3.5 92 3.7 94 3.5 92 3.7 94 3.5 92 3.7 94 3.5 92 3.7 94 4.1 93 5.4 94 4.0 93 4.7 94 4.3 95 4.5 91 4.1 91 5.9 90 5.7 93

OUTFALL 002 COOLING TOWER BLOWDOWN

. [TSS	TDS
1	DATE	(mg/1)	(mg/1)
1	6	38	1900
1	13.	52	2822
	20	45	1706
	27	98 (2)	1992

DATE	Sulfate (mg/1)	0&G (mg/1)
6	1200	0

PARAMETER	FREQ.	LIMITS	
<u>8</u>		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (I)	15	20
SULFATE	QRTLY (1)	N.A.	N.A. *
TEMPERATURE (MAXIMUM)	DAILY	110°F	110° F
pH	CONT.	6.0 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plani OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: <u>No pH excursions occurred this month.</u>
(2) Verified by back-up sample.



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE <u>3</u> OF <u>4</u>

08/2007_____

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/1)	рН
	No	Discharge		

SANITARY WASTE

PARAMETER		LIMITS (mg/1)		
	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (I)	N.A.	N.A.	
TSS	QRTLY (I)	70	110	
BOD	QRTLY (I)	45	65	
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0	

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 609 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ I)	pН
20	10	017	44	3	17	7.96
20	11	.079	99	5	30	8.14
20	12	.006	11	4	25	8.90
	13	No	Discharge			
	14	No	Discharge			
:	15	No	Discharge			1.00

STORM WATER RUNOFF PONDS

	MO. AVG.	
	MIC. AYG.	DAILY MAX.
QRTLY. (I)	N.A.	N.A.
QRTLY (I)	N.A.	N.A.
QRTLY (I)	N.A.	N.A.
QRTLY (I)	15	20
QRTLY(1)	>6.0	>6.0
	QRTLY (I) QRTLY (I) QRTLY (I)	QRTLY (I) N.A. QRTLY (I) N.A. QRTLY (I) N.A. QRTLY (I) N.A. QRTLY (I) N.A.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 016*

DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/I)	pH .	TRC (ug/l)	
10	4.34	9	1	8.5	<50	
]

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (I)	30	100	
O and G	QRTLY (1)	15	20	
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (I)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: *See TRC results for Outfall 16 on Attachment I.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005



PERMIT NO. MO-0098001 **REPORTING PERIOD (MO/YR)** 08/2007 PAGE __4_ OF __4_

NPDES MONITORING REPORT

"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."

Preparer

Reviewer

Approved

Plant Manager Director HH 3 14 9-26-07

Page 4 of 4



ATTACHMENT 1

DATE: _____08/2007

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
1	<50
2	174
7	<50
8	78
9	<50
15	<50
16	<50
21	<50
22	<50
23	<50
28	<50
29	<50
30	75

ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 09/2007 PAGE 1_0F 4_ 09/2007

NPDES MONITORING REPORT

DATE	SOURCE	FLOW	TSS	Boron	рĦ	PARAMETEI	FREQ.	LI	MITS
12	6	(MGD) .093 .093	(mg/1)(*1) 6 6	(mg/l) 25 55	<u>8.84</u> 8.72			MONTHLY AVERAGE	
26	6	.093	9	46	8.91	FLOW (MGD)	EB	N.A.	N.A.
						pH (STD)	EB	6.0-9.0	6.0-9.0
						TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A.	N.A.
						TRC (ug/l)	Monthly	N.A.	190
<u></u>						BOD (mg/l)	Monthly	N.A.	N.A.
م <u>ىر دې در موسو</u> د ا						O&G (mg/1)	Monthly	15	20
						ALL SAMPLE Plant OPERAT METHODS SI	IONS LABO	RATORY USIN	IG
						- 14			
				1		SOURCES			. t _
						1 = WASTE	MONITOR T	ANK A	
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -						2 = WASTE	MONITOR T	ANK B	
					a de la competencia d	3 = STEAM	GENERATO	R BLOWDOW	N ÷
<u> </u>						4 = SEC. Li	Q. WASTE M	ONITOR TANK	KA
						5 = SEC. LI	Q. WASTE M	ONITOR TAN	κв
				}		6 = LIQ. RA	DWASTE DI	SCHARGE TAI	NK A
······		<u></u>		<u> </u>		7 = LIO. RA	DWASTE DI	SCHARGE TA	NK B
· · · · · · · · · · · · · · · · · · ·						EB = EACH E			
<u></u>	· · · · · · · · · · · · · · · · · · ·					<u> </u>	OD (mg/l)	TRC (ug/l)	O&G (mg/l)
والمتحديث والمحاجر		<u>نى بەر ئەرىكە شەر مەر</u> ب					0	20	3
						+			
						COMMENTS:			
								بې د فريندي	
						:		<u>16. 4 1.</u>	
						· · · · · · · · · · · · · · · · · · ·	<u></u>		

OUTFALL 001 RADWASTE SYSTEM

File C170.0005

Page 1 of 4

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 09/2007 PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (42/1)
1	6.1	89	64
2	6.4	91	<50
3	6.5	93	<50
4	6.4	94	<50
5	6.1	93	<50
6	5.4	93	64
7	5.3	93	<50
8	5.5	91	97
9	5.5	91	<\$0
10	6.0	91	<50
11	5.3	84	<50
12	6.0	83	<50
13	2.8	88	127
14	5.5	82	122
15	4.6	78	172
16	4.2	83	<50
17	4.9	. 90	93
18	4.0	. 92	<50
19	4.8	92	<50
20	4.6	92	<50
21	4.6	90	71
22	4.7	90	77
23	4.6	93	99
24	4.6	93	107
25	4.6	91	99
26	4.7	87	<50
27	4.8	85	79
28	3.7	85	104
29	4.6	86	71
30	4.2	91	<50

DATE	TSS (mg/l)	TDS (mg/l)
3	50	2520
10	57	1500
17	71	2002
24	55	2153

DATE	Sulfate (urg/1)	04.G (mg/1)
No	Sample	Required

PARAMETER	FREQ	LIMITS		
· · · · · · · · · · · · · · · · · · ·		MO. AVG.	DAILY MAX	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.,	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER IOCSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

File C170.0005

CA-0320

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	рН
		· · · · · · · · · · · · · · · · · · ·		
	No	Sample	Required	
			,	l se

SANITARY WASTE

PARAMETER		LIMITS (mg/l)		
	FREQ.	MOAVG	WELY. AVG.	
FLOW	QRTLY (I)	N:A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 809 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ I)	pH
	No	Sample	Required			

OUTFALL 016*

DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/l)	pН	TRC (ug/l)
	No	Sample	Required		

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

LOWDOWN RGE

STORM WATER RUNOFF PONDS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX	
FLOW	QRTLY. (1)	N.A.	N.A	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
oH	ORTLY(1)	>6.0	>6.0	

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

فكالم مراجع

PARAMETER	FREQ	L	MITS
		MO. AVG.	DALLY MAX
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	ORTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Outfall 016 TRC results on Attachment 1

File C170.0005

Page 3 of 4

CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE __4__ OF __4__

NPDES MONITORING REPORT

09/2007

"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."

Preparer

Reviewer

Approved

CA0320 01/11/05

Plant Manager

Page 4 of 4

s.,

4

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
4	146
5	85
6	180
13	61
18	<50
19	132
20	<50
25	<50
26	<50

ATTACHMENT 1

Amaran Services Environmental, Safety & Health 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com One Ameren Piaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

January 22, 2008

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602



meren

Re: Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001 Fourth Quarter, 2007 NPDES Discharge Monitoring Report (DMR)

Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the *Fourth Quarter 2007 (October, November, and December)* DMR.

Per our NPDES Permit Reportable Event Report that was submitted to you on October 15, 2007, the Total Residual Chlorine (TRC) permit limit was exceeded on October 10th from Outfall 002 (Cooling Tower Blowdow). The TRC exceedance is also documented in the Comments section on Page 2 of the October DMR.

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Environmental, Safety & Health Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

bcc: R.S. Boutelle (CA-460) JCP / SSW (WQ3.1.2.1

1

4

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)______10/2007 PAGE _1__ OF _4__

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

	PARAMETER	рĦ	Boron (mg/1)	TSS (mg/1)(*1)	FLOW (MGD)	SOURCE	DATE
Ĺ		8.76	103	8	.094	7	5
Ľ		8.74	49	9	.093	6	13:
Ĺ	FLOW (MGD)	8.72	43	22	.092	7	20
L	pH (STD)						1.1
L	TSS (mg/1)						<u>.</u>
	Boron (mg/l)						
Ľ	TRC (ug/i)						
П	BOD (mg/l)						
Π	O&G (mg/1)						
ĀN	ALL SAMPLES						
)N	Plant OPERATI						e per presenta en la
CII	METHODS SPE						
		·····	·				
	SOURCES						
()	J = WASTEN						
	h.						
	2 = WASTEN						
	3 = STEAM C						
	4 = SEC. LIQ			Sec. 1			
	5 = SEC. LIQ						
W,	6 = LJQ.RAD				1		
W	7 = LIQ. RAD				1. A A A A A A A A A A A A A A A A A A A		
Ť	EB = EACH BA						
Ð	Date BC						
	.5						
•	20						
7,							
÷	<u></u>						
	COMMENTS:						
							
Ţ.,							

PARAMETER	FREQ.	LIMI	TS
		MONTHLY AVERAGE	
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
TSS (mg/l)	EB	30	45
Boron (mg/l)	EB	N.A.	N.A.
TRC (ug/l)	Monthly	N.A.	190
BOD (mg/l)	Monthly	N.A.	N.A.
O&G (mg/1)	Monthly	15	20

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING

METHODS SPECIFIED UNDER 10CSR 20-7.015

= WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B EB = EACH BATCH

Date BOD (mg/l) TRC (ug/l)

.5		30	5
20	10		

O&G (mg/l)

PERMIT NO. MO-6098001 REPORTING PERIOD (MO/YR) ______10/2007 PAGE _2__ OF _4___

NPDES MONITORING REPORT

DATE	FLOW (MGD)	TEMP	TRC
	43	(MAX 9F 86	(<i>ag/l</i>) 91
2	6.0	90	72
3	6.7	.85	94
4	0.6	92	127
5	7.9	92	88
6	7.1	93	<50
7	7.0	93	87
8	6.9	89	<50
9	6.7	76	117
10	5.5	- 80	203/98 (2)
· · · · · · · · · · · · · · · · · · ·	4.1	77	113
J2	3.0	78	66
13	3.0	80	72
14	3.8	84	<50
15	4.5	83	<50
16	4.8	81	<50
17	5.2	85	73
18	4.8	84	<50
19	4.4	80	<50
20	5.7	83	<50
21	4.6	85	<50
22	3.6	79	<50
23	3.4	71	<0
24	2.8	76	<50
25	4.4	74	<50
26	4.4	74	<50
27	4.3	74	. < 5 0
28	4.3	73	ح٥
29	5.0	75	<50
30	6.4	78	<50
31	2.7	Π	<50

OUTFALL 002 COOLING TOWER BLOWDOWN

	DATE	TSS (mg/l)	TDS (mg/l)
	1	77	2425
	8	72	1952
	15	63	2116
	22	69	1560
1	29	56	2032

DATE	Sulfaie (mg/1)	0&G (Hig/1)
No	Sampie	Required

PARAMETER	FREQ.	LIMITS	
nanananan ya manana y	neneral (n. 11 74). Na sana sana sana sana sana sana sana sa	MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	. 15	20
SULFATE	QRTLY (1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110 F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: <u>No pH excursions occurred this month.</u> (2) exceeded 190 ppl. TRC for approximately 32 minutes.



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)

PAGE <u>3</u> OF <u>4</u>

NPDES MONITORING REPORT

102007

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

SANITARY WASTE

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	pH
· · · · · · · · · · · · · · · · · · ·	No	Sample	Required	
		1		

OUTFALL 007

PARAMETER		LIMITS (mg/1)			
	FREQ.	MO. AVG.	WALF. AVG.		
FLOW	QRTLY (I)	N.A.	N.A.		
TSS	QRTLY (1)	70	110		
BOD	QRTLY (1)	45	65		
рH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0		
			1		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ 1)	pН
	No	Sample	Required	<u> </u>		
<u> </u>	• •		~			

OUTFALL 016*

DATE	FLOW (MGD)	TŠS (mg/1)	O and G (mg/l)	pH	TRC (ug/l)
	No	Sample	Required		

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY.(I)	N.A.	N.A.	
TSS	QRTLY (I)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (I)	15	20	
pH	QRTLY(I)	>6.0	>6.0	

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
	_	MO. AVG.	DAILY MAX.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 017

2. 17

*

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015 COMMENTS: <u>Outfall 016 Cooling Tower Bypass TRC results</u> on Attachment I.

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10/2007

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE_4_OF_4_

NPDES MONITORING REPORT

"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."

(Pin#) Preparer

4

(Pin#) Reviewe

YDDIO (Pin#)

Plant Manager

Page 4 of 4

ATTACHMENT 1 10/2007

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
2	<50
3	<50
. 9	<50
10	<50
11	80
16	<50
17	148
18	126
25	<50
29	<50
30	<50
31	<50

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ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ______11/2007 PAGE _1___ OF __4__

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)(*1)	Boron (mg/1)	pH	PARAMETÈ	R FREQ	L	MITS
2	6	.091	33 (I)	2	8.92			MONTHLY	
9	6	.091	27	15	8.87			AVERAGE	MAX.
26	7	.090	22	4	7.76	FLOW (MGD) EB	N.A.	N.A.
29	6	.095	15	123	6.68	pH (STD)	EB	6.0-9.0	6.0-9.0
						TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A.	N.A.
						TRC (ug/l)	Monthly	N.A.	190
						BOD (mg/l)	Monthly	N.A.	N.A.
						O&G (mg/1)	Monthly	15	20
······						ALL SAMPL	ES ANALYZE	DBY Ameren	UE Callaway
				··		Plant OPERA	TIONS LABOR	ATORY USD	G
		· · · · ·		<u>.</u>		METHODS S	PECIFIED UN	DER IOCSR 2	-7.015
			<u> </u>						
			<u> </u>			SOURCES			
			╉╼╍╌╌╴┨	· · · ·			E MONITOR T	ANKA	
	{{						E MONITOR T		
		·				1	GENERATO		N
		· · · · · · · · · · · · · · · · · · ·					I OLIVERATO		
		- 14 A						1	
					· .	J .	IQ. WASTE M		1997 - March 1997 - 199
		- 14					ADWASTE DI		
	· · · · · · · · · · · · · · · · · · ·					7 = LIQ.R.		SCHARGE TA	NKB
						EB = EACH	BATCH		
						Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/
						2	2	<10	11
			1	······································					
			<u> </u>			1		······	-,
	· ·		╂┈╍╍╌╴┤			COMMENTS (1) TSS m	: othiv average y	vas 24.3 mg/l	
	 						waafi wiinige 1		
			·}					<u></u>	
							·····		

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>11/2007</u> PAGE <u>2</u> OF <u>4</u>

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
.1	4.4	73	70
2	5.1	73	ସ
3	4.4	72	60
4	4.9	74	65
5	4.6	77	5 0
6	7.3	68	<50
7	9.1	70	<30
8	4.3	72	53
9	6.2	72	50
10	4.9	74	С О
ni ⁿ	4.3	81	<0
12	4.5	80	S 0
13	5.0	77	<50
14	5.7	75	S 0
15	5.9	69	\$
16	5.5	72	<50
17	6.8	73	<50
18	3.9	71	<50
19	4.1	79	<u><</u> 30
20	4.1	80	<50
21	. 5.2	72	<50
22	6.3	66	58
23	6.1	63	62
24	6.1	62	<u>ح</u> ٥
25	6.6	62	<50
26	6.0	64	76
27	6.1	66	57
28	7.0	69	<50
29	4.7	66	<50
30	4. B	65	<50

DATE	TSS (mg/l)	TDS (mg/l)
5	63	1996
12	52	2036
19	64	1916
26	59	1710
	4 /	

DATE	Sulfate (mg/1)	O&G (mg/l)
12	1330	0.4

PARAMETER	FREQ.	LI	MITS
•		MO. AVG.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110° F	110°F
рН	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY America UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month

File C170.0005

11/2007

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE _3_ OF _4_

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

N	DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/1)	рН
ł					
				7	
,		No	Discharge	Noted	
÷.					
;					
1.1				an an Ar An An An An	

SANITARY WASTE

PARAMETER		LIM	UTS (mg/l)
	FREQ.	MO. AVG.	WKLY. AVG.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (I)	70	110
BOD	QRTLY (1)	45	65
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•				۰.
	OUT	FALL	009	1.1.1	
	-				
NTAKE	HEA	TER	SLOWI	юw	£.
	10 10	000	808		÷.

NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/I)	CO D (mg/ l)	pН
		.020	11	2	17	8.19
21	12	.007	18	2	10	9.44
21	13	.008	9	3	7	8.30
21	14	.034	23	2	21	7.82
	n de la com					

OUTFALL 016*

DATE	FLOW (MGD)	T\$S (mg/1)	O and G (mg/1)	pĦ	TRC (ug/l)
14	2.6	10	0	8.26	. <50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS			
		MO. AVG.	DAILY MAX.		
FLOW	QRTLY. (I)	N.A.	N.A.		
TSS	QRTLY (I)	N.A.	N.A.		
COD	QRTLY (I)	N.A.	N.A.		
O and G	QRTLY (1)	15	20		
pH	QRTLY(I)	>6.0	>6.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER FREQ		LIMITS			
ka shi she waa		MO. AVG.	DAILY MAX.		
FLOW	QRTLY (1)	N.A.	N.A.		
TSS	QRTLY (1)	30	100		
O and G	QRTLY (1)	15	20		
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0		
TRC	QRTLY (I)	N.A.	190		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No discharge from Outfalls 11 and 15.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 11/2007 PAGE_4_ OF _4_

NPDES MONITORING REPORT

"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."

638

(Pin#) Preparer

12267 Pin#)

Approved (Pin#)

Plant Manager

Page 4 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 12/2007 PAGE __1_ OF __4_

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

es.

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/1)	pH	PARAMETER FREQ. LIMITS			MITS
5	7	.081	27	192	8.44			MONTHLY	DAILY
16	7	.091	18	66	8.7			AVERAGE	MAX.
24	7	.069	8	102	8.86	FLOW (MGD)	EB	N.A.	N.A.
30	6	.093	19	31	8.47	pH (STD)	EB	6.0-9.0	6.0-9.0
						TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A.	N.A.
•						TRC (ug/l)	Monthly	N.A.	190
			· · · · · · · · · · · · · · · · · · ·			BOD (mg/l)	Monthly	N.A.	N.A.
						O&G (mg/1)	Monthly	15	20
•.						ALL SAMPLES	ANALYZE	D BY Ameren U	JE Callaway
•	t in a second				4	Plant OPERATI	ONS LABO	RATORY USIN	IG
			•••••		· · · · · · · · · · · ·	METHODS SPE	CIFIED UN	DER JOCSR 20	7.015
						SOURCES			
		·····				I = WASTEN			
	···						-		
						2 = WASTEN	-		
						3 = STEAM (and the second second	
						4 = SEC. LIQ			,
						5 = SBC. LIQ	WASTE M	ONITOR TANK	КВ
						6 = LiQ.RAD	WASTE DI	SCHARGE TAI	NKA
						7 = LIQ.RAD	WASTE DI	SCHARGE TAI	NK B
						EB = EACH BA	TCH		2
						Date BC	DD (mg/l)	TRC (ug/l)	O&G (mg
						5	9.4	10	19.57*
						16			14.96
						24			7.5
						30			9.92
						COMMENTS:			
						(*) Month	ly average fo	r 0.1 and Greas	e was 12.99
						mg/L			
						· · · · · · · · · · · · · · · · · · ·			_ <u></u> ,
				······					•

12/2007

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE _2_OF _4__

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 2F	TRC (ug/l)
1	4,4	66	<50
2	4.3	69	٥٥
3	4.3	60	<50
4	4.4	64	S 0
.5	5.3	64	30
6	4.6	59	<50
7	4.1	59	54
8	4.1	59	123
9	4.2	58	55
10	4.1	56	72
n	4.0	59	<50
12	8.0	58	<50
13	4.0	57	<50
i4	4.0	57	65
15	4.0	57 .	<50
16	5.5	58	100
17	4.8	60	131
18	4.9	61	S 0
19	5.2	62	ح 50
20	5:1	63	<50
21	4.2	64	
22	4.2	66	⊲0
23	4.1	60	58
24	4.4	59	<10
25	5.4	62	52
26	4.3	61	<50
27	4.2	58	54
28	4.3	58	67
29	4.4	58	ර 0
30	4.3	59	148
31	5.8	60	<50

DATE	TSS (mg/1)	TDS (mg/l)
3	53	2064
10	50	1944
17	63	3280
24	55	1512
31	72	1452

DATE	Sulfate (mg/1)	0&G (mg/1)
No	Sample	Required
1		

PARAMETER	FREQ.	LIMITS		
an a		MO. AVG.	DAILY MAX.	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (I)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110° F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

File C170.0005

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CA-0320 01/11/05

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE __3__ OF __4__

NPDES MONITORING REPORT

12/2007

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE OUTFALL 007 PH PARAMEN DATE (MGD) (mg/l) pH No Sample Required No Sample Required (1) SAMPL Classing

SANITARY WASTE

PARAMETER	1	LIM	TTS (mg/1)
	FREQ.	MO. AVG.	WKLY. AVG.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	70	110
BOD	QRTLY(I)	45	65
рН	QRTLY(I)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN

NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ I)	pH
		- No	Samples	Required		
						·

OUTFALL 016*

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	рĦ	TRC (ug/l)
	No	Sample	Required		

OUTFALL 017

ULTIMATE HEAT SINK

No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	L	IMITS
·. · ·		MO. AVG.	DAILY MAX.
FLÓW	QRTLY. (I)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (I)	N.A.	N.A.
O and G	QRTLY (I)	· IS	20
pH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	PARAMETER FREQ		MITS
		MO. AVG.	DAILY MAX.
FLOW 8	QRTLY (I)	N.A.	N.A.
TSS	QRTLY (I)	30	100
O and G	QRTLY (I)	15	20
рН	QRTLY (I)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (I)	N.A.	190

() SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:

File C170.0005

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CA-0320 01/11/05

12/2007

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _4_ OF _4_

NPDES MONITORING REPORT

"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."

Know SK 638

Preparer (Pin#)

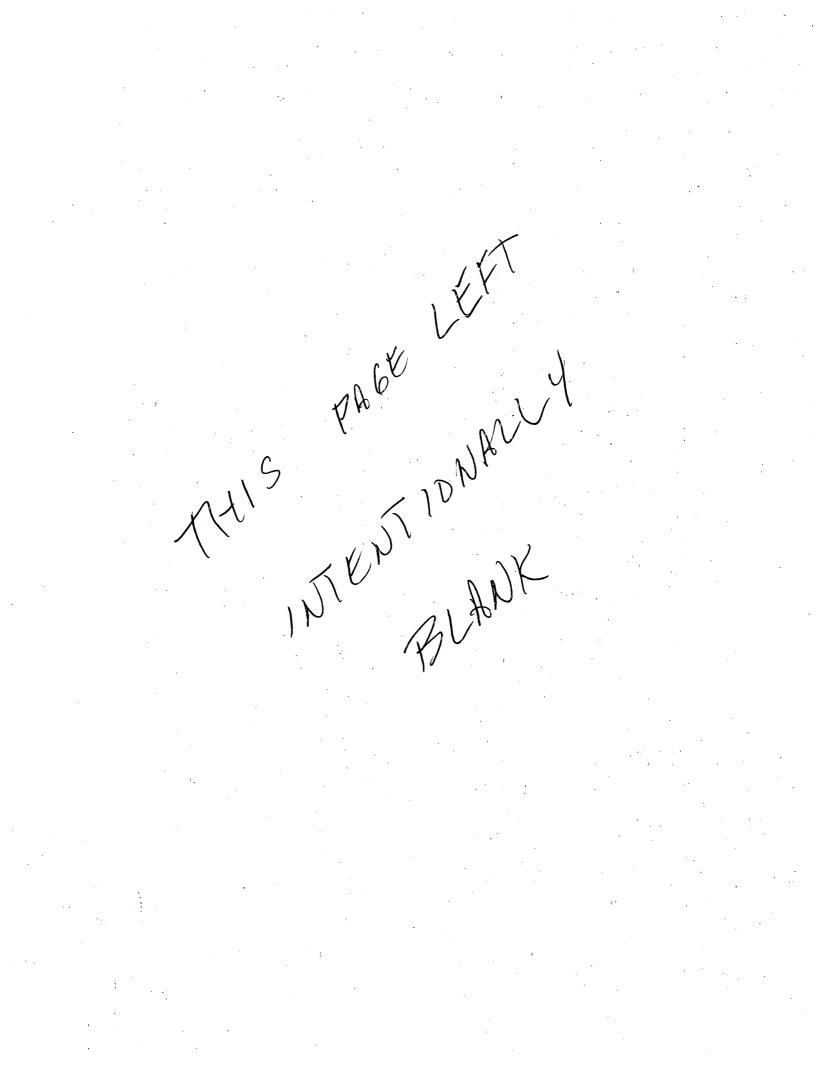
12267 Reviewe

(Pin#) Approved

Plant Manager

Page 4 of 4





Ameren Services Environmental Services 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com One Ameren Plaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

April 28, 2008

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602

· Re:

Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001 First Quarter, 2008 NPDES Discharge Monitoring Reports (DMRs)



Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the DMRs for the *First Quarter 2008 (months of January, February, and March.*

There were two incidents in the month of March involving overflow of fully treated effluent from the sewage lagoon lift station. Both overflow incidents did not involve "bypass of a treatment system", did not pose any risk to health or environment, and did not reach "waters if the state". Samples of the treated effluent overflow indicated it was in compliance with the NPDES permit limitations for pH, Total Suspended Solids (TSS), and Biochemical Oxygen Demand (BOD). Per NPDES permit Standard Conditions, both incidents were deemed not reportable as 24-hour or 5-day notification reporting requirements.

The first incident was discovered at 1510 hours on March 17th 2008 and involved the sewage lagoon #3 lift station overflowing onto the ground and into an adjacent excavation trench for installation of our discharge line piping replacement project. The outlet valve of the lift station was shut immediately to stop the flow. The control panel for the lift station transfer pumps was found de-energized. It was discovered, during investigation, that power was lost to the lift station pumps when a portion of the excavation embankment sloughed off during heavy rains and pulled the power cable from conduit that supplied the power to the control panel of the lift station pumps.

Chemistry personnel collected samples from the lift station. Results for pH, TSS, and BOD were in compliance with NPDES permit limits. The water released was fully treated effluent it posed no threat to the environment or human health.

Based on evaluation of the spill path and proximity of the excavation trench, Callaway concluded that water could not have made its way to navigable waters of the state. Additionally, the large amount of rainfall received during this period, commingling of storm water on the ground and in the trench it was not feasible to recover the treated effluent.

a subsidiary of Ameren Corporation

bcc: R.S. Boutelle (CA-460) JCP / SSW WQ3 12:1

÷,

As a contingency for preventing additional overflow of lift station, two sump pumps were staged at Sewage Lagoon #3 overflow standpipe and pumped from Lagoon #3 to Wetlands Pond #1. This configuration was chosen to maintain a flow path consistent with the current NPDES permit process flow. Temporary power has since been run to the lift station to supply the lift station pumps until a permanent modification could be put in place.

Mike Bollinger of Ameren Environmental Services reported this overflow incident to Troy Lalond of MDNR's Northeast Regional Office on March 20th approximately 0845 hours. Mr. Lalond concurred there was no risk to the environment and there was no bypass of the treatment system, and it was determined the treated effluent was contained on-site within the pipeline excavation and did not reach "waters of the state". Mr. Lalond and Mr. Bollinger agreed this overflow incident be reported on the 1st Quarter NPDES DMR.

The second incident occurred on March 29th, 2008 when the Sewage Lagoon #3 lift station pumps were not able to keep up with influent flow combined with substantial rainfall. Similarly, the overflow was immediately stopped. Runoff of the treated effluent ended up in the adjacent excavation trench could not have made its way to navigable "waters of the state" and posed no threat to human health or environment. Results of samples collected from the overflow resulted within NPDES permit limits for pH, TSS, and BOD. Both pumps have since been repaired.

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

Gail P. Stary for

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Ameren Environmental Services Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 01/2008 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pli	PARAMETER	FREQ	Ш	MITS
4	7	.093	10	62	6.63			MONTHL	DAI
16	6	.093	6	49	8.85			AVERAGE	MA
19	7	.093	5	54	8.98	FLOW (MGD)	EB	N.A.	N.4
28	6	.095	7	69	8.67	pH (STD)	EB	6.0-9.0	6.0-9
30	7	.094	8	6	8.31	TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A.	N./
	1.					TRC (ug/l)	Monthly	N.A.	19
						BOD (mg/l)	Monthly	N.A.	N.
						O&G (mg/1)	Monthly	15	2
					-	ALL SAMPLE	S ANALYZE	D BY Ameren	UE Callaw
						Plant OPERAT	IONS LABOR	RATORY USIN	10
	······				[]	METHODS SP	ECIFIED UN	DER JOCSR 20	-7.015
				<u></u>		•			
	· · · · · · · · · · · ·				<u> </u>	SOURCES			
	·			<u> </u>	······	I = WASTE	MONITOR T	ANK A	
				<u> </u>		2 = WASTE			
	·					3 = STEAM			м
					<u> </u>	4 = SEC, LIC			
					<u> </u>		-		
						5 = SEC. LIC	-		
						6 = LIQ.RA			
						7 = LIQ. RAI		SCHARGE TA	NKB
						EB = EACH B			
				· · · · · ·		Date B	OD (mg/l)	TRC (ug/l)	O&G (n
						4	1.7	10	5
						Lunn <u></u>			
			· · · · · · · · · · · · · · · · · · ·		<u> </u>	COMMENTS:			
	1	·[. •			······································		·
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File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _2_OF _4_ 01/2008

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ng/l)
1	4.1	58	<50
2	4.4	54	168
3	4.7	58	. 114
4	4.6	63	<0
5	4.7	67	120
6	5.8	70	69
7	5.9	73	<50
8	6.1	72	59
9	5.2	64	128
	at market 4.4 standard	64	
11	4.4	63	<50
12	4.3	63	66
13	4.4	59	110
14	4.4	57	<50
15	4.5	57	<50
16	5.8	60	<50
17	4.5	56	<50
18	4.4	56	<50
19	6.7	52	<50
20	4.6	54	<0
21	4.6	57	56
22	3.6	55	<50
23	3.6	64	86
24	5.7	52	<50
25	5.7	53	<50
26	5.1	58	69
27	4.9	60	<50
28	4.7	64	<50
29	4.6	66	<50
30	4.8	67	67
31	5.6	57	<50

	TSS	TDS
DATE	(mg/1)	(mg/1)
7	71	1612
14	52	1710
21	40	1352
28	58	1440

DATE	Sulfate (mg/1)	0&G (mg/l)
No	Sample	Required

PARAMETER	FREQ.	in internation of U	MITS
		MO. AVG.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110° F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

COMMENTS: No pH excursions occurred this month

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)

YR) _____01/2008

PAGE _3_ OF _4__

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	рН
	No	Sample	Required	
	+			

SANITARY WASTE

PARAMETER		LIMITS (mg/1)		
· ·	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BÓD	QRTLY (1)	45	65	
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ l)	pН
		No	Samples	Required		

OUTFALL 016*

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	pН	TRC (ug/l)
	No	Sample	Required		1
÷					

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS			
		MO. AVG.	DAILY MAX.		
FLOW	QRTLY.(I)	N.A.	N.A.		
TSS	QRTLY (1)	N.A.	N.A.		
COD	QRTLY (1)	N.A.	N.A.		
O and G	QRTLY (1)	15	····· 20 · ··		
pH	QRTLY(1)	>6.0	>6.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS			
		MO. AVG.	DAILY MAX.		
FLOW	QRTLY (1)	N.A.	N.A.		
TSS	QRTLY (1)	30	100		
Q and G	QRTLY (1)	15	20		
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0		
TRC	QRTLY (I)	N.A.	190		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _4_ OF _4_

NPDES MONITORING REPORT

01/2008

"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."

(Pin#) Reviewer (Pin#) Preparer App) Plant Manager

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)_____02/2008 PAGE _1__ OF _4__

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	рН	P.	ARAMETER	FREQ.	LI	MITS
8	_6	.090	4	4	8.2				MONTHLY AVERAGE	
19	7	.093	11	1	8.85				ATELAGE	Marca
28	6	.093	3	2	8.69	FI	.O₩ (MGD)	EB	<u>N.A.</u>	N.A.
			<u> </u>			니 만	I (STD)	EB	6.0-9.0	6.0-9.0
			<u>8</u>	L			SS (mg/1)	EB	30	45
				· · · · ·			oron (mg/l)	EB	N.A.	<u>N.A.</u>
			_				RC (ug/l)	Monthly	N.A.	190
						B	OD (mg/l)	Monthly	N.A.	N.A.
					-		&G (mg/1)	Monthly	15	20
							LL SAMPLES	ANALYZE	D BY Ameren	UE Callaway
			<u> </u>			- P1	ant OPERATK	ONS LABO	RATORY USIN	łG .
					=	м	ETHODS SPE	CIFIED UN	DER 10CSR 20	-7.015
<u> </u>		····	· · · · · · · · · · · · · · · · · · ·	<u> </u>		4				
							DURCES			
							= WASTE M	1 A A		
						1	- WASTEN	1.1.1		
						3	🝷 STEAM G	ENERATO	R BLOWDOW	N
			I			4	= SEC. LIQ.	WASTE M	ONITOR TAN	KA
						5	- SEC. LIQ.	WASTE M	ONITOR TAN	КB
						6	= LIQ RAD	WASTE DI	SCHARGE TA	NK A
			<u> </u>			1 7	= LIO. RAD	WASTE DI	SCHARGE TA	NK B
·						1 A A	B = EACH BA			•
							<u> </u>)D (mg/l)	TRC (ug/l)	O&G (mg/l
						┥┝─	8	7	10	2
					••••••	1			<u></u>	
			<u>├</u>			┫┟──				
			<u> </u>			┨╵┝┷		·		
						┨╷┠╍				L
						d	OMMENTS:		· · · · · · · · · · · · · · · · · · ·	-
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OUTFALL 002 COOLING TOWER BLOWDOWN

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DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (#g/l)
1	5.8	56	72
2	5.4	57	80
3	4.6	60	<50
4	5.0	68	103
5	4.5	63	115
6	5.0	57	<u>1</u> 25
7	4.4	63	<50
8	5.1	67	<50
9	4.2	63	<\$0
10	4.2	56	55
	4.2	·	<50
12	4.5	53	151
13	3.9	53	<50
14	5.3	57	<50
15	5.1	56	<50
16	5.2	64	<50
17	5:4	70	<50
18	5.5	55	<50
19	5.5	52	51
20	4.7	54	<50
21	4.6	53	<50
22	4.4	53	<50
23	4.5	53	<50
24	4.5	54	<50
25	1.7	56	<50
26	4.4	55	<50
27	4.8	54	<50
28	5.8	55	<50
29	4.9	58	<50
	1.1		

		TSS	TDS
	DATE	(mg/l)	(mg/1)
1	4	57	1152
	11	47	1360
1	18	34	1376
. [25	30	892
1			

	DATE	Sulfate (mg/1)	0&G (mg/l)
	4	1110	4
, * .			
-	1.1	12	1

PARAMETER	FREQ	water LL	water LIMITS entertainered		
		MO. AVG.	DAILY MAX		
FLOW	CONT.	N.A.	N.A.		
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.		
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.		
OIL AND GREASE	QRTLY (1)	15	20		
SULFATE	QRTLY.(1)	N.A.	N.A.		
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F		
pH	CONT.	6.0 - 9.0	6.0 - 9.0 %		
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L		

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE 3_0F 4_

02/2008

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

PARAMETER

OUTFALL 007

		S	A	ar	AR	Y	ŴA	ST	Ê
	•						1.1.1.1		·

1	DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	рН
[28	.031	6	7	7.72
I					
Ī					
ſ					
ſ					
ſ				(1, 1, 2, 2, 3)	

		FREQ	MO. AVG.	WKLY. AVG.
FLOW	de la	QRTLY (1)	N.A.	N.A.
TSS	<i>#</i>	QRTLY (1)	70	110
BOD	1. <u> </u>	QRTLY (1)	45	65
pH	*	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
	×	· · · ·		

LIMITS (mg/l)

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	COD (mg/l)	рĦ
14	10	.032	19	1	22	8.02
14	.11	.149	99	1	24	7.61
14	12	.011				8.74
- 4	13	NO	DISCHARGE			
	14	NO	DISCHARGE			
	15	NO	DISCHARGE	1-,		

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	pН	TRC (ut/)
8	4.46	12	3	8.15	<50

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MQ AVG.	DAILY MAX.	
FLOW	QRTLY.(I)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (I)	15	20	
рH	QRTLY(I)	>6.0	>6.0	

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	Ľ	MITS
		MO. AVG.	DAILY MAX.
FLOW	QRTLY(1)	N.A.	N.A.
TSS	QRTLY(1)	30	100
O and G	QRTLY (1)	15	20
рН	QRTLY (I)	6.0 - 9.0	6.0 - 9.0
TRC	ORTLY (1)	N.A.	190

(I) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

COMMENTS:

File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _4_ OF _4_

NPDES MONITORING REPORT

"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."

638 MORS Preparer (Pin#) Reviewer

Plant Manager

CA0320

01/11/05

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 03/2008

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NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pН	PARAMET	ER FREQ.	LI	M <i>ITS</i>
12	7	.094	10	16	8.88			MONTHL	
24	6	.090	5	8	8.95			AVERAGE	MAX
1						FLOW (MG	D) EB	N.A.	N.A.
						pH (STD)	EB	6.0-9.0	6.0-9.
						TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A.	N.A.
					x	TRC (ug/!)	Monthly	N.A.	190
						BOD (mg/l)	Monthly	N.A.	N.A
						0&G (mg/1)	Monthly	15	20
		<u> </u>				ALL SAMP	LES ANALYZE	D BY Ameren	UE Callawa
			f			the same to by the implement whether the	TIONS LABO	a interesting and	
	<u> </u>					· , , · -	SPECIFIED UN		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
			- <u>15</u>			MIGINOLS	DI LUTIEU UN	DUR IN DR A	
	· · · · · · · · · · · · · · · · · · ·				l				
						SOURCES			
	a de la companya de l La companya de la comp		<u> </u>				TE MONITOR 1	and the second second	
		· · · · ·				2 = WAST	TE MONITOR 1	ANK B	
						3 = STEA	M GENERATO	R BLOWDOW	N
						4 = SEC. 1	LIQ. WASTE M	ONITOR TAN	KA
				-		5 = SEC. 1	LIQ. WASTE M	ONITOR TAN	KB
						6 = LIO. F	ADWASTE DI	SCHARGE TA	NK A
	<u></u>						ADWASTE DI		11 A.
	<u></u>		<u></u>			EB = EACH	a kata Tahu		
						Date	BOD (mg/l)	TRC (ug/l)	O&G (m
						12	12.9	<10	0
	· · · · · · · · · · · · · · · · · · ·								
<u></u>					<u></u>	COMMENT	S:		<u> </u>
		بب ب با معتب						<u> </u>	
						** <u></u>	<u></u>	<u></u>	<u> </u>

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R) <u>03/2008</u>

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	ТЕМР (МАХ Э.Г	TRC (ugA)
1	4.5	63	<50
2	4.7	67	<50
3	4.6	66	<50
4	4.4	57	<50
5	3.7	66	90
6	4.7	62	50
7	4.4	57	<50
8	4.4	55	80
9	4.3	58	<\$0
10	4.5	59	50
1 1	4.4	61	<50
. 12	4.9	64	<50
13	4.6	65	<50
14	5.1	64	<50
15	4.9	64	<50
16	4.9	61	<\$0
17	4.7	63	<50
18	3.8	64	<50
19	1.1	62	<50
20	4.0	65	<50
21	5.1	67	<50
22	5.2	62	<50
23	4.5	60	<50
24	4.3	64	<50
25	4.6	64	<50
26	1.2	- 65	<50
27	4.9	65	<50
28	2.1	63	<50
29	2.9	66	<50
30	4.5	66	<50
31	4.4	67	<50

	TSS	TDS
DATE	(mg/1)	(mg/l)
3	51	(mg/1) 1540
10	39	1040
17	57	1484
24	62	1004
31	55	1812

DATE	Sulfate (mg/l)	0&G (mg/1).
No	Sample	Required

PARAMETER	FREQ	LL	MITS
		MQ. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
рН	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

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ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE _ 3_ OF _ 4_

FLOW

(MGD)

مو

DATE

17 (*)

29 (*)

NPDES MONITORING REPORT

03/2008

рĦ

8.54

8.64

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTPALL 007

(mg/1)

16

17

SANIT	ARY	WAS	TE

PARAMETER		LIMITS (mg/l)		
	FREQ.	MO. AVG.	WELY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

STORM WATER RUNOFF PONDS

7 71417

				OUTFALL 009
с. Ц	1	, e	1.f	INTAKE HEATER BLOWDOWN
Ĵ,		1	• •	NO DISCHARGE

DIDAMET

OUTFALLS 010 - 015

BOD

(mg/1)

13

13

DATE	OUTFAL L	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	COD (mg/l)	pH_
						1.12
	94 (ladige - 1949) and 1950 (1997) a	No	Sample	Required	7 KW .	

OUTFALL 016

DATE	FLOW (MGD)	T\$\$ (mg/l)	O and G (mg/l)	рН	TRC (ug/l)
	No	Sample	Required		

PARAMIDICA	TACLA	LUTEI		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY(1)	N.A.	N.A.	
COD	QRTLY(1)	N.A.	N.A.	
O and G	QRTLY (1)	marine 15 million	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS	
		MO. AVG.	DAILY MAX
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

COMMENTS: (*) Sewage lagoon lift station overflow samples Note that the discharge from the converted wetland and the flows, reported herein are NOT discharged, as this Outfall (#007) is recycled to the head of the Water Treatment Plant for fluther treatment and reuse.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005

Page 3 of 4



03/2008

PERMIT NO. MO-0098001 **REPORTING PERIOD (MO/YR)** PAGE _4_ OF _4_

NPDES MONITORING REPORT

"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."

638 (Ìin#)

Preparer

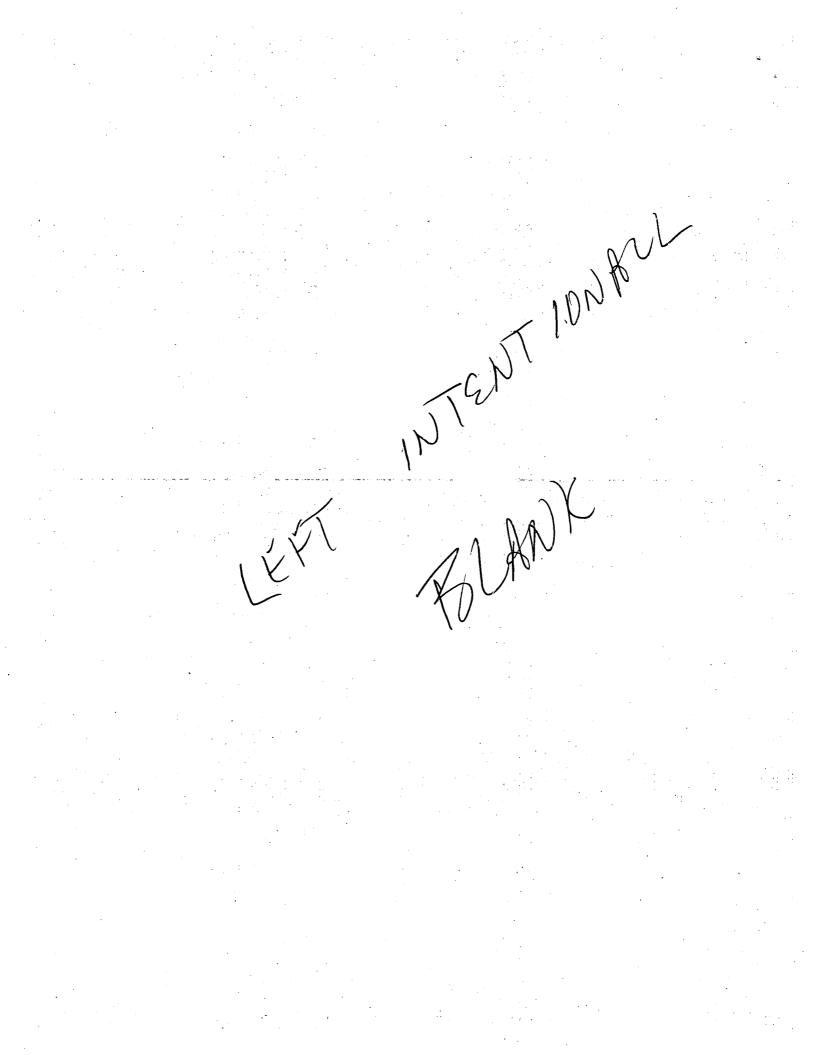
12267 Reviewen

(5061)

Approved (Pin#) Plant Manager 4/2×/08 Fn Fud: Digg

CA0320 01/11/05

Page 4 of 4



Ameren Services Environmental Services 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com One Ameren Plaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

July 18, 2008

Re:

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602

> Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001



Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the DMRs for the Second Quarter 2008 (April, May, and June).

Second Quarter, 2008 NPDES Discharge Monitoring Reports (DMRs)

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Ameren Environmental Services Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

a subsidiary of Ameren Corporation

R.S. Boutelle (CA-460) JCP / SSW WQ3.1.2.1 bcc:

- i

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)_____04/2008 PAGE _____OF __4___

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/1)	рН
2	1	.092	13	50	8.88
15	6.	.090	25	5.	7.88
21	7	091	10	73	8.07
26	6	.090	~ 14	63	8.49
				-	
	1.41.2.9.41.045.41.44.244.244.244.244.244.244.244.244.2	energy and a period of the second	wertstellereterterschrödert	enget	
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1		<u>مى بۇرۇرى بار بار بار بار بار بار بار بار بار بار</u>			

AVERAGE M. FLOW (MGD) EB N.A. N pH (STD) EB 6.0-9.0 6.0 TSS (mg/1) EB 30 4 Boroa (mg/l) EB N.A. N TRC (ug/l) Monthly N.A. 1	PARAMETER	FREQ.	LIMITS		
pH (STD) EB 6.0-9.0 6.0 TSS (mg/1) EB 30 4 Boron (mg/1) EB N.A. N TRC (ug/1) Monthly N.A. 1				DAILY MAX.	
TSS (mg/1) EB 30 4 Boroa (mg/l) EB N.A. N TRC (ug/l) Monthly N.A. I	FLOW (MGD)	EB	N.A.	N.A.	
Boroa (mg/l) EB N.A. N TRC (ug/l) Monthly N.A. If	pH (STD)	EB	6.0-9.0	6.0-9.0	
TRC (ug/l) Monthly N.A. I	TSS (mg/1)	EB	30	45	
	Boroa (mg/l)	EB	N.A.	N.A.	
BOD (mg/l) Monthly N.A. N		Monthly	N.A.	190	
	BOD (mg/l)	Monthly	N.A.	N.A.	
O&O (mg/1) Monthly 15 2	O&G (mg/1)	Monthly	15	20	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

OURCES

I = WASTE MONITOR TANK A

2 = WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC LIQ. WASTE MONITOR TANK A

5 = SEC_LIQ. WASTE MONITOR TANK B

= LIQ RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

B = EACH BATCH

g/1)	O&G (mg	TRC (ug/l)	BOD (mg/l)	Date
	8.4	20	2.2	2

OMMENTS: _____

File C170.0005

Page 1 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____04/2008

PAGE _2_ OF _4_

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	42	66	<50
2	3.8	64	<50
3	3.5	η	<50
4	3.6	64	<50
5	4.0	66	<50
6	3.7	68	<50
7	2:1	67	<50
8	5.6	66	<50
9	4.0	67	<50
10	3.7	68	<50
11	5.5	69	<50
12	5.4	65	<50
13	5.9	64	<50
14	4.3	65	<50
15	5.7	67	<50
16	4.3	71	<50
17	4.2	70	<50
18	4.6	69	<50
19	4.8	68	
20	4.9	78	<50
21	5.9	75	<50
22	5.9	. 77	<50
23	. 4.6 .	77	<50
24	5.2	76	< 50
25	4.5	78	<50
26	4.3	72	<50
27	41	71	<50
28	3.3	69	<50
29	3.9	68	<50
30	1.5	74	<50

DATE	TSS (mg/1)	TDS (mg/l)
7	46	1356
14	42	792 (2)
21	49	1276
28	58	1428

DATE	Sulfate (mg/1)	0&G (mg/1)
No	Sample	Required

PARAMETER	FREQ.	L	MITS
		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	NA.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110° F
РЙ	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

File C170.0005

Page 2 of 4



PERMIT NO. MO-0098001 **REPORTING PERIOD (MO/YR)**

PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

04/2008

	DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/l)	pН
ł		Nò	Samples	Required	4
l			•		
Į					

OUTFALL 007

SANITARY WASTE

n 1840.

PARAMETER		1.00	UTS (mg/1)
	FREQ.	MO. AVG.	WKLY. AVG.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (I)	70	110
BOD	QRTLY (1)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFAL L	FLOW (MGD)	TSS (ung/l)	0 and G (mg/1)	COD (mgA)	pĦ
in the second	en andre state andre samere	No No	- Samples	Required	a managera	1996-142

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.		THITS
Sec. 24. A.L		MO. AVG.	DAILY MAX.
FLOW	QRTLY, (I)	N.A.	N.A
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (I)	N.A.	N,A,
O and G	QRTLY (I)	15	20
рH	QRTLY(1)	>6.0	>6.0

SAMPLES SHALL BE TAKEN DURING THE MONTHS (1) OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (I)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
pH	QRTLY (1)	6.0 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Outfall 016 TRC results on Attachment 1

OUTFALL 016

	DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/l)	pH	TRC (ug/l)	. *.
Γ	· · · · · ·	No	Samples	Requir			
Ľ	·						·

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005

Page 3 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE _4_ OF _4_

NPDES MONITORING REPORT

04/2008

"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."

(12267) Approved (Pin#) (Pin#) Preparer Reviewer

Plant Director

CA0320 01/11/05

Page 4 of 4

ATTACHMENT 1 DATE: <u>04/08</u>

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
16	139
17	100
22	<50
25	<50
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LICHEMSTRY ADMINNPDES ATTACHMENT I WORKSHEET.DOC

ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 05/2008 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TS5 (mg/l)	Boron (mg/1)	рН	PARAMETER	FREQ.	LIM	ITS
6	7	.088	0	9	8.3			MONTHLY	DAIL
12	6	.091	24	10	8.95			AVERAGE	МАХ
17	7	.070	9	7	8.95	FLOW (MGD)	EB	N.A.	N.A.
						pH (STD)	EB	6.0-9.0	6.0-9.
				•		TSS (mg/1)	EB	30	45
						Boron (mg/l)	EB	N.A	N.A.
	r .					TRC (ug/l)	Monthly	N.A.	190
· . · ·					Na	BOD (mg/l)	Monthly	N.A.	N.A.
	·				· · · · · · · · · · · · · · · · · · ·	O&G (mg/1)	Monthly	15	20
						ALL SAMPLES	ANALYZEI	BY Ameren U	Callaway
<u></u>			n yaaray karang kalan mahayyati salan diyosa	and a state of the second s	for participants and the participants of	Plant OPERATI			-
	· · · · · · · · · · · · · · · · · · ·		1			METHODS SPI			
						METHODS OF		JER WESK 20-	.015
. <u></u> .						SOURCES	· - · · ·		
•						I = WASTE MONITOR TANK A			
				·		2 = WASTE	MONITOR T	ANK B	
			·	-		3 = STEAM (JENERATOR	BLOWDOWN	
						4 = SEC. LIQ	WASTE MO	NITOR TANK	A
					· · ·	5 = SEC. LIQ	. WASTE MO	DNITOR TANK	B
			· · · · ·			6 = LIQ. RAI	WASTE DIS	CHARGE TAN	KA
			· · · · ·			7 = LIQ. RAI	WASTE DIS	CHARGE TAN	КВ
						EB = EACH B			
							DD (mg/l)	TRC (ug/l)	0&G (mg
			<u> </u>						
						.6		10	6
	l					. 12	4.8		
						COMMENTS:	· · · · · · · · · · · · · · · · · · ·		
			<u> </u> :					· · · · · · · · · · · · · · · · · · ·	
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File C170.0005

Page 1 of 4

05/2008

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____ PAGE _2__ OF _4__

a.

NPDES MONITORING REPORT

OUTFALL 802 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (#8/0)
1	1.5	76	<50
2	4.2	75	<50
3	5.9	71	<50
4	4.2	72	64_
5	4.2	75	<50
6	4.2	76	<50
7	5.7	76	<\$0
8	4.4	74	<50
9	4.8	73	71
10	source 3.5 months	aberration 72 contraction	×× <50
11	4.6	71	<50
12	4.7	78	<50
13	5.9	76	<50
14	5.8	75	<50
15	5.0	72	<50
16	4.1	75	<50
17	3.3	77	<50
18	6.7	76	<50
19	3.5	78	<50
20	4.6	82	<50
21	6.2	75	<50
22	0	78	`< S 0
23	8.2	77	<\$0
24	7. I	76	<50
25	5.1	81	<50
26	5.1	80	<50
27	4.7	80	<50
28	5.2	76	70
29	3.8	80	<50
30	4.7	82	<50
.31	5.5	82	<50

(mg/1)	(mg/i)
44	1784
50	1756
43	1828
37	1744
1. A.	
	50 43 17

	DATE	Sulfate (mg/1)	O& G (mg/l)
۰.	5	990	2
4	<u>, </u>		

PARAMETER	FREQ.	LIMITS		
		MQ. AVG.	DAILY MAX	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY (1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: _____ No pH excursions occurred this month.____

File C170.0005



 PERMIT NO. MO-0098001
 05/2008

 REPORTING PERIOD (MO/YR)
 05/2008

PAGE <u>3</u> OF <u>4</u>

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT

NO DISCHARGE

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/])	pН
17	.04	1.0		7.67
31			8.4	
		·		
				•

OUTFALL 007

SANITARY WASTE

PARAMETER		LIMITS (mg/l)					
	FREQ.	MO. AVG.	WELY. AVG.				
FLOW	QRTLY (1)	N.A.	N.A.				
TSS	QRTLY (1)	70	110				
BOD	QRTLY (1)	45	65				
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0				

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009
INTAKE HEATER BLOWDOWN
NO DISCHARGE

OUTFALLS 010 - 015

10		(mg/l)	(mg/l)	(mg/l)	pН
10	0.11	7	3	17.5	8.1
11	0.51	51 -	3	32.5	7.8
12 -	0.04		6		8.3
14	0.18	19	б	22.5	8.0
15	0.07	5	2	25.5	8.5
	14	12 0.04 14 0.18	12 0.04 28 14 0.18 19	12 0.04 -28 6 14 0.18 19 6	12 0.04 -28 6 -15.0 14 0.18 19 6 22.5

OUTFALL 016

DATE FLOW (MGD)		O and G (mg/l)	pH	TRC (48/1)
2.28	12	1.0	8.11	<50
	(MGD)	(MGD) (mg/l)	(MGD) (mg/l) G (mg/l)	(MGD) (mg/l) G (mg/l)

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015 STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS				
		MO. AVG.	DAILY MAX.			
FLOW	QRTLY.(I)	N.A.	N.A.			
TSS	QRTLY(I)	N.A.	N.A.			
COD	QRTLY (I)	N.A.	N.A.			
O and G	QRTLY (I)	15	20			
pH	QRTLY(1)	>6.0	>6.0			

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS.				
	3	MO. AVG.	DAILY MAX			
FLOW	QRTLY (1)	N.A.	N.A.			
TSS	QRTLY (1)	30	100			
O and G	QRTLY (I)	15	20			
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0			
TRC	QRTLY (I)	N.A.	190			

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: Note that the discharge from the converted wetland and the flows reported herein are NOT discharged, as this Outfall (#007) is recorded to the head of the Water Treatment Plant for further treatment and reuse.

No discharge noted on Outfall 013.

Outfail 016 TRC results on Altachment 1.

File C170.0005

Page 3 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE _4__ OF _4__

NPDES MONITORING REPORT

05/2008

"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."

mall 5408 det Enjo D. Sohu (12267) 1141.4440 (Pin#) Approved (Pin#) Preparer Reviewe Plant Director

Page 4 of 4

CA0320

01/11/05

ATTACHMENT 1 DATE: 05/08

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
7	<50
8	57
9	91
13	160
14	80
.15	155
20	118
21	<50
27	180
28	<50
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ATTACHMENT I

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 06/2008 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	рH		PARAMETE	R FREQ	LD	AITS
2	6	.093	16	20	8.91				MONTHLY	DAILY
6	7	.092	4	15	8.69			· · · · ·	AVERAGE	MAX.
9	6	.088	12	2	8.28		FLOW (MGD) EB	N.A.	N.A.
11	7	.089	3	5	7.59		pH (STD)	EB	6.0-9.0	6.0-9.0
20	6	.093	19	11	8.78		TSS (mg/1)	EB	30	45
24	7	.093	7	43	8.73		Boron (mg/l)	EB	N.A.	N.A.
							TRC (ug/l)	Monthly	N.A.	190
							BOD (mg/l)	Monthly	N.A.	• N.A.
-	1997 - 1997 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1		an an teanant. Tana				O&G (mg/I)	Monthly	15	20
Na tanang manang man	r - Mala Carlot - Formation (here the second second second second	worken and the second	and the second second	Alter alter and the alter of the second	esta della	ALL SAMPLI	S ANALYZE	D BY Ameren L	JE Callaway
						7	Plant OPERA	TIONS LABO	RATORY USIN	G
•						-	METHODS S	ECIFIED UN	IDER IOCSR 20	7.015
						-			• •	
						-	SOURCES	· · • ·		
	and the second s						I = WASTE	MONITOR		
<u> </u>						-		MONITOR 1		
1						-			R BLOWDOWN	ł
								· · · · ·	ONITOR TANK	a fa se
								•		
			gara da di		- <u></u>	_			ONITOR TANK	· ·
									SCHARGE TAN	
									SCHARGE TAN	√K B
							EB = EACHI	BATCH		
	n an an search an an sea Tha tha tha search an						Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
							2	2	20	6
						-				
						-				
			-	<u>موسط کی منبع کار منبع کار م</u>		- 1				
						-	La constante		<u>1</u>	
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						-	in the second se		· · · · · · · · · · · · · · · · · · ·	<u></u>
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PERMIT NO. MO-0098001 **REPORTING PERIOD (MO/YR)** 06/2008 PAGE _2_OF _4_

NPDES MONITORING REPORT

<u>OUTFALL 002</u> COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (#g/l)
1	5.5	. 82	60
2	6.7	81	<50
3	4.9	83	<50
4	6.0	83	<50
5	4.3	84	<50
6	4.7	84	<50
7	5.2	85	<50
8	5.5	86	<50
9	5.6	84	<50
10	4.4	83	<50
11	3.9	84	<u><</u> 50
12	4.9	85	<50
.13	4.5	83	<50
14	4.5	83	<50
15	4.5	84	<50
16	4.5	83	<50
17	4.4	81	<50
18	1.5	82	<50
19	4.5	82	<50
20	5.8	88	<50
21	4.1	89	<50
22	3.9	86	<\$0
23	4.3	83	<50
24	6.3	83	<50
-25	8.2	84	<50
26	7.1	88	<50
27	2.3	83	123
28	5.2	83	88
29	5.7	80	69
30	4.5	82	88

DATE	(mg/l)	(mg/1)
2	31	1758
9	22	1168
16	43	1306
23	49	888
30	47	1776

DATE	Sulfate (mg/l)	0&G (mg/1)
No. 1	Sample	Required

PARAMETER	FREQ.	LI	MITS
		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A,
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A:
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

2

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: _ No pH excursions occurred this month.

File C170.0005

Page 2 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)

PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

06/2008

DATE	FLOW (MGD)	155 (mg/1)	BOD (mg/l)	pН
No		Required		
		<u> </u>		
-				
		1		

SANITARY WASTE

÷.

PARAMETER		LIMITS (mg/l)		
•	FREQ.	MO. AVG.	WELY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	COD (mg/l)	рH
		No	Sample	Required		
	· · ·					

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/l)	pН	. TRC (#g/l)
	No	Sample	Required		

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY America UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.		MUTS
;		MO. AVG. :	DAILY MAX.
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY (1)	· N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (I)		comins 20 minutes
pH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS	
		MO. AVG.	DAILY MAX.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
Q and G	QRTLY(1)	15	20
pH	QRTLY (I)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: <u>Note that the discharge from the converted wetland and</u> the flows reported herein are NOT discharged, as this Outfall (#007) is <u>recycled to the head of the Water Treatment Plant for further treatment and</u> reuse

No discharge noted on Outfall 013. Outfall 016 TRC results on Attachment 1

File C170.0005

Page 3 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE __4__ OF __4__

NPDES MONITORING REPORT

06/2008

"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."

F (12267 २४ (Pin#) Reviewer (Pin#) Preparer Approved Plant Director

Pagé 4 of 4

CA0320 01/11/05

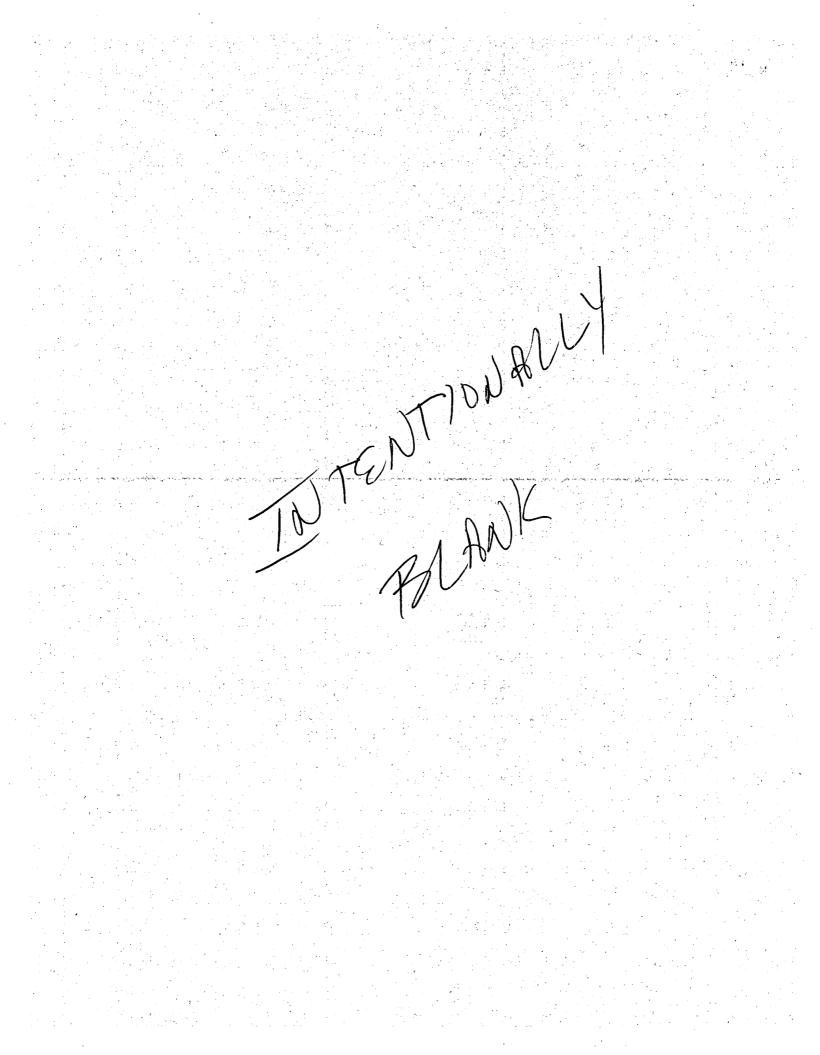
ATTACHMENT 1 DATE: <u>06/08</u>

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

<u>Date</u>	TRC (ug/ml)
3	<50
4	<50
5	<50
10	<50
11	<50
12	<50
17	<50
18	<50
19	<50
24	<50 <50
26	<50

I:CHEMSTRY\ADMININPDES\ATTACHMENT | WORKSHEET.DOC

ATTACHMENT 1



Ameren Services Environmental Services 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com One Ameren Plaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

October 23, 2008

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602

Re: Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001 Third Quarter, 2008 NPDES Discharge Monitoring Reports (DMRs)

Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the DMRs for the *Third Quarter 2008 (July, August, and September)*.

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

a subsidiary of Ameren Corporation

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Ameren Environmental Services Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

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	2. 2.		and and a second se	
bcc: R.S. Boutelle	(CA-460)			
bcc: R.S. Boutelle JCP / SSW WQ3.1.2.1				
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 PERMIT NO. MO-0098001

 REPORTING PERIOD (MO/YR)
 07/2008

 PAGE 1_OF 4_
 07/2008

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	рН	PARAMETE	R FREQ.	LI	AITS
1	6	.090	7	1	8.82			MONTHLY	
10	7	.092	4	65	6.64			AVERAGE	MAX.
15	6	.092	22	55	6.47	FLOW (MGD) EB	N.A.	N.A.
	7	.092	20	41	7.14	pH (STD)	EB	6.0-9.0	6.0-9.0
	6	.066	26	30	6.11	TSS (mg/1)	EB	30	45
)	7	.090	16	3	8.51	Boron (mg/l)	EB	N.A.	N.A.
		ан салана. По са Колонија				TRC (ug/l)	Monthly	N.A.	190
						BOD (mg/l)	Monthly	N.A.	N.A.
						O&G (mg/1)	Monthly	15	20
						ALL SAMPLI	ES ANALYZE	D BY Ameren L	E Callaway
						Plant OPERA	TIONS LABOR	ATORY USIN	G
								DER 10CSR 20	
	<u> </u>					SOURCES			
							MONITOR T	A 3112 A	
							MONITOR T		
						내 가지는 구성하지		RBLOWDOWN	
						A	-	ONITOR TANK	
				and the second		5 = SEC. LI	Q. WASTE M	ONITOR TANK	.в.
						6 = LIQ. R/	DWASTE DI	SCHARGE TAN	IK A
						7 = LIQ R/	DWASTE DI	CHARGE TAN	IK B
			1			EB = EACH	BATCH		
					-	Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/
na sera						10	<1	<10	3
				14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -				- <u></u>	
					· · · · · · · · · · · · · · · · · · ·				
									<u>la se .</u> Cera esta
								<u> </u>	<u></u>
						COMMENTS			
1									an a
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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____ PAGE _ 2__ OF _ 4__

NPDES MONITORING REPORT

07/2008

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
1	5.5	82	145
2	5.7	. 82	<50
3	5.0	81	<50
4	5.3	80	<50
5	4.7	80	<50
6	5.2	82	<50
7	5.4	84	<50
8	5.6	85	<50
9	4.8	84	<50
10	75	84	<50
11	4.6	94	<50
12	4.9	86	<50
13	5.8	84	<50
14	5.3	84	<50
15	7.1	85	<50
16	4.7	85	<50
17	6.2	86	<50
18	5.2	87	<50
19	4.7	88	<50
20	4.9	88	<50
21	1.4	92	<50
22	3.1		<50
23	6.1	85	<50
24	6.0	85	<50
25	6.2	84	<50
26	5.9	89	-53
27	6.1	86	66
28	8.0	89	<50
29	7.7	92	<50
30	9.9	86	<50
31	9.0	85	<50

DATE	155 (mg/1)	TD\$ (mg/l)
. 7	50	868 (2)
14	38	1530
21	46	1964
28	100	1392

DATE	Sulfate (mg/1)	0&G (mg/l)
No	Sample	Required

PARAMETER	FREQ.	LI	WITS
		MO. AVG.	DAILY MAX
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY(1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
рН	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY America UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: <u>No pH excursions occurred this month.</u> (2) Back-up sample (920 ppm) done to confirm low number.

07/2008

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE 3 OF 4

NPDES MONITORING REPORT

<u>OUTFALL 003</u> WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	рН
	No	Sample	Required	
			an a	
•				

SANITARY WASTE

PARAMETER		LIM	TS (mg/1)
	FREQ.	MO. AVG.	WKLY. AVG.
FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	70	110
BOD	QRTLY(1)	45	65
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	COD (mg/l)	pН
		No	Sample	Required		
				,		
					1	

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/l)	рH	TRC (ug/l)
	No	Sample	Required		

STORM WATER RUNOFF PONDS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(I)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
· ·		MO. AVG.	DAILY MAX	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY (1)	15	20	
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	ORTLY (I)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

COMMENTS:

Outfall 016 TRC sample results on Attachment



07/2008

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE __4__ OF __4__

NPDES MONITORING REPORT

"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."

638 5408 (Pin#) Preparer (Pin#) Reviewer

Approved (Pin#

Plant Director

CA0320

01/11/05

Page 4 of 4

ATTACHMENT 1 DATE: <u>07/08</u>

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
1	<50
2	<50
3	<50
9	<50
11	<50
15	<50
16	<50
17	<50
23	<50
24	<50
29	<50
30	<50
31	<50

I: CHEMSTRY ADMIN NPDES ATTACHMENT I WORKSHEET DOC

ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 08/2008 PAGE 1_ OF 4____

NPDES MONITORING REPORT

RADWASTE SYSTEM SOURCE DATE FLOW **TSS** Boron pН PARAMETER FREQ. (MGD) (mg/l) (mg/1) 6 6 .093 4 65 6.44 .090 6 8.00 8 7 24 14 6 .091 9 11 8.64 FLOW (MGD) 23 7 .093 1 27 8.39 pH (STD) 31 .091 13 28 6.14 6 TSS (mg/1) Boron (mg/i) TRC (ug/l) Monthly BOD (mg/l) Monthly O&G (mg/1) Monthly ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015 SOURCES 1 = WASTE MONITOR TANK A 2 = WASTE MONITOR TANK B 3 = STEAM GENERATOR BLOWDOWN 4 = SEC: LIQ. WASTE MONITOR TANK A 5 = SEC. LIQ. WASTE MONITOR TANK B 6 = LIQ. RADWASTE DISCHARGE TANK A 7 = LIQ. RADWASTE DISCHARGE TANK B EB = EACH BATCH Date BOD (mg/l) 2 6 COMMENTS: .

OUTFALL 001

File C170.0005



LIMITS

DAILY

МАХ.

N.A.

6.0-9.0

45

N.A.

190

N.A.

20

O&G (mg/l)

2

MONTHLY

AVERAGE

N.A.

6.0-9.0

30

N.A.

N.A.

N.A.

15

TRC (ug/l)

20

EB

EB

EB

EB

08/2008

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _____ PAGE __2__OF __4__

13

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ugA)
1	6.7	89	<50
2	4.4	88	<50
3	4.7	90	<50
4	4.5	98	<50
5	2.5	98	86
6	4.0	90	<50
7	5.0	90	<50
8	4.1	86	<50
9	5.3	89	<50
10	3.3	90	<50
11	6.2	86	<50
12	4.6	88	<50
13	5.5	87	<50
14	5.7	88	<50
15	5.6	84	178/53
16	4.9	82	<50
. 17	4.9	82	64
18	5.0	82	<50
19	5.0	82	<50
20	4.8	82	54
21	7.3	83	89
22	4.9	83	64
23	4.8	85	60
24	5.8	. 83	63
25	4.8	83	64
26	5.8	82	<50
27	7.0	83	56
28	5.0	85	<50
29	2.9	83	<50
30	4.3	83	61
31	4.4	83	59

DATE	TSS (mg/l)	TDS (mg/1)
4	48	1296
11	46	1800
18	33	2252
25	45	1876

<u></u>		
DATE	Sulfate (mg/l)	0&G (mg/l)
4	725	3

PARAMETER	FREQ.	LI	MITS
		MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY American UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: No pH excursions occurred this month.

File C170.0005



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE <u>3</u> OF <u>4</u>

08/2008

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/1)	pН
13	.0006	3		7.87
20			<1	
	,. ··		1 E	- · · · · ·
	•			

SANITARY WASTE

PARAMETER		LIMITS (mg/l)			
	FREQ.	MO. AVG.	WKLY. AVG.		
FLOW	QRTLY (1)	N.A.	N.A		
TSS	QRTLY (I)	70	110		
BOD	QRTLY (I)	45	65		
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	COD (mg/l)	ρĦ
13	10	.029	59	2	12	7.49
13	11	.133	28	1	12	7.88
27	12	.010	28	1	.12	9.2
27	13	.012	196	3	12	7.95
13	14	.048	17	1	22	8.58
27	15	.019	23	2.	18	9.32

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/1)	рH	TRC (ug/l)
6	3.79	5	2	7.88	<50

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Amoren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	L	MITS
		MO. AVG.	DAILY MAX.
FLOW	QRTLY.(I)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	N.A.
COD	QRTLY (1)	N.A.	N.A.
O and G	QRTLY (1)	15	20
рH	QRTLY(1)	>6.0	>6.0

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	L	IMITS
		MO. AVG.	DAILY MAX.
FLOW	QRTLY (I)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
TRC	QRTLY (1)	N.A.	190

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: <u>Note that the discharge from the converted welland and</u> the flows reported herein are NOT discharged, as this Outfall (#007) is recycled to the head of the Water Treatment Plant for further treatment and reuse.

Outfall 0	16 TRC s	imple resul	ts on Attachment	L.	
•		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			
			•		· · ·

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE __4__ OF __4__

NPDES MONITORING REPORT

08/2008

"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."

638

(Pin#)

Denise Schuth (12267)

4194 (Pin#) Approved

Plant Director

Page 4 of 4



ATTACHMENT 1 DATE: _____08/08_____

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
6	<50
7	95
11	<50
12	<50
13	<50
15	<50
19	<50
20	<50
21	147
26	<50
27	<50

I:CHEMSTRY\ADMIN\NPDES\ATTACHMENT I WORKSHEET.DOC

ATTACHMENT 1

PERMIT NO. MO-0098001 09/2008 REPORTING PERIOD (MO/YR) 09/2008 PAGE _1_OF _4__ 05/2008

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	рН	PARAME	TER FREQ.	Lli	MITS
7	7	.092	6	52	6.67			MONTHLY	
10	· 6	.089	7	40	7.73			AVERAGE	MAX.
18	7	.093	2	31	6.22	FLOW (M	GD) EB	N.A.	N.A.
21	6	.092	4	2	7.73	pH (STD)	EB	6.0-9.0	6.0-9.0
24	7 .	.093	3	16	6.56	TSS (mg/1) EB	30	45
25	6	.091	2	35	7.45	Boron (mg	/l) EB	N.A.	N.A.
27	7	.093	· 5	28	6.45	TRC (ug/I)	Monthly	N.A.	190
30	6	.091	2	13	6.54	BOD (mg/	l) Monthly	N.A.	N.A.
	1					Q&G (mg/	1) Monthly	15	20
_						ALL SAM	PLES ANALYZ	D BY Ameren	UE Callaway
	f					Plant OPE	RATIONS LABO	RATORY USIN	IG
<u> </u>			· · · · · · · · · · · · · · · · · · ·		·····	MÉTHOD	S SPECIFIED UI	DER IOCSR 20	-7.015
			<u> </u>	<u> </u>		SOURCES			
	-			ļ			-		
				L			STE MONITOR		
					•	2 = WA	STE MONITOR	TANK B	
				_		3 = STE	AM GENERATO	R BLOWDOW	N
	· · · · ·					4 = SEC	LIQ. WASTE N	IONITOR TAN	K A
	A Contraction of the second se		· ·			5 = SEC	LIQ. WASTEN	IONITOR TAN	КB
						6 = LIO	RADWASTE D	ISCHARGE TA	NK A
·····				<u> </u>			RADWASTE D	· •	
	· · · · · · · · · · · · · · · · · · ·	······································			·····		CH BATCH		
				<u> </u>		Date	BOD (mg/l)	TRC (ug/l)	O&G (ாg∕
· · · ·						10		20	
		· · · · · · · · · · · · · · · · · · ·					•	hand the second s	2
						21	<	•	
						COMMEN	VTS:		·
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 PERMIT NO. MO-0098001

 REPORTING PERIOD (MO/YR)
 09/2008

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 OF
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NPDES MONITORING REPORT

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)	
1	5.4	86	<50	
. 2	5.2	87	78	
3	4.8	83	87	
<u>, 4</u>	4.8	85	<50	
5	3.7	82	<50	
6	7.3	79	<50	
7	3.9	79	.54	
8	8.1	79	<50	
9	8.8	76	<50	
10	7.1	77	<50	
11	4.5	80	<50	
12	6.9	80	<50	
13	9.3	80	<50	
14	6.6	81	<50	
15	5.9	81	<50	
16	6.7	79	<50	
17	3.4	77	<50	
18 .	2.4	78	185	
19	5.9	84	<50	
20	6.0	82	<50	
21	5.8	82	<50	
22	6.8	84	<50	
23	5.2	85	<50	
24	6.3	85	<50	
25	7.4	82	<50	
26	6.4	82	<50	
27	6.4	80	<50	
28	6.8	80	<50	
29	4.3	79	<50	
30	4.6	77	94	

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	TSS (mg/1)	TDS (mg/1)
1	57	1724
8	66	1272
15	70	896 *
22	49	386 *
29	55	1180

	Sulfate (mg/1)	0&G (mg/1)
DATE No	Sample	Required

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PARAMETER	FREQ.	LI	LIMITS		
		MO. AVG.	DAILY MAX.		
FLOW	CONT.	N.A.	N.A.		
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.		
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.		
OIL AND GREASE	QRTLY (I)	15	20		
SULFATE	QRTLY.(1)	N.A.	N.A.		
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F		
рН	CONT.	6.0 - 9.0	6.0 - 9.0		
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L		

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER IOCSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS:	NopH	excursions occurre	d this month	
· ·	*Back	up analysis done to	venify	



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE <u>3</u> OF <u>4</u>

09/2008

NPDES MONITORING REPORT

<u>OUTFALL 003</u> WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/l)	рН
5 (*)	-	34	15	7.46
30 (*)	-	Not captured	22	Not captured

PARAMETER	· · · ·	LIMITS (mg/1)		
• •	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

SANITARY WASTE

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

<u>OUTFALL 009</u> INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	COD (mg/l)	рН
		No	Sample	Required		

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/1)	pН	TRC (ug/l)	
	No	Sample	Required.			J

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
·		MO. AVG.	DAILY MAX	
FLOW	QRTLY.(I)	N.A.	N.A.	
TSS	QRTLY(1)	N.A.	N.A.	
COD	QRTLY(1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pН	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY(1)	30	100	
O and G	QRTLY(1)	15	20	
pH	QRTLY(1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

treatment and reuse. Outfall # 016 TRC Results on Attachment 1

File C170.0005

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE <u>4</u> OF <u>4</u>

NPDES MONITORING REPORT

09/2008

"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."

Preparer

(12267) Reviewe

Approved Plant Manager

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ATTACHMENT 1 DATE: <u>09/2008</u>

Date	TRC (ug/ml)
2	107
3	<50
4	82
8	<50
9	<50
10	115
11	189
16	<50
17	<50
18	<50
26	125
30	87

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

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Ameren Services Environmental Services 314.554.3480 (Telephone) 314.554.4182 (Facsimile) ssweiss@ameren.com One Ameren Plaza 1901 Chouteau Avenue PO Box 66149 St. Louis, MO 63166-6149 314.621.3222

January 23, 2009

Department of Natural Resources Northeast Regional Office 1709 Prospect Drive Macon, Missouri 63552-2602

Re: Ameren UE Callaway Power Plant NPDES Permit No. MO-0098001 Fourth Quarter, 2008 NPDES Discharge Monitoring Reports (DMRs)



Dear Sir or Madam:

In accordance with requirements of the Union Electric Company, d/b/a Ameren UE Callaway Power Plant, NPDES Permit MO-0098001, please find enclosed the DMRs for the *Fourth Quarter 2008 (October, November, and December)*.

Please note, on November 23rd, the Total Residual Chlorine (TRC) permit limit was exceeded from Outfall 002 (Cooling Tower Blowdown). An NPDES Permit Exception Report was submitted to your office on November 25th notifying of the TRC limit violation.

Please call me at 314-554-3480 if you have any questions concerning the enclosed reports.

Sincerely,

Steven S. Weiss Environmental Scientist, NPDES DMR Coordinator Ameren Environmental Services Ameren Services as Affiliated Agent for Union Electric Company, d/b/a AmerenUE

Attachment

a subsidiary of Ameren Corporation

bcc: R.S. Boutelle (CA-460) JCP / SSW WQ3.1.2.1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 10/2008 PAGE 1 OF 4

NPDES MONITORING REPORT

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	рН
1	7	.093	2	16	8.46
2	6	.091	1	20	8.07
4	7	.091	<1	21	8.69
7	6	.088	5	4	8.58
10	7	.092	4	7	8.36
12	6	.091	7	4	8.75
14	7	.087	5	89	7.29
17	6	.090	9	80	.7.13
21	7	.091	9	64	8.10
22	6	.020	6	64	8.41
23	6	.086	5	50	8.47
30	7	.080	8	123	7.22
		.072	0		1.22
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OUTFALL 001 RADWASTE SYSTEM

PARAMETER	FREQ.	LIMITS		
		MONTHLY AVERAGE	DAILY MAX	
FLOW (MGD)	EB	Ń.A.	N.A.	
pH (STD)	EB	6.0-9.0	6.0-9.0	
TSS (mg/l)	EB	30	45	
Boron (mg/l)	EB	N.A.	N.A.	
TRC (ug/l)	Monthly	Ň.A.	190	
BOD (mg/l)	Monthly	N.A.	N.A.	
O&G (mg/1)	Monthly	15	20	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING

METHODS SPECIFIED UNDER 10CSR 20-7.015

OURCES

= WASTE MONITOR TANK A

- WASTE MONITOR TANK B

3 = STEAM GENERATOR BLOWDOWN

4 = SEC. LIQ. WASTE MONITOR TANK A

5 = SEC. LIQ. WASTE MONITOR TANK B

6 = LIQ. RADWASTE DISCHARGE TANK A

7 = LIQ. RADWASTE DISCHARGE TANK B

EB = EACH BATCH

Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
1		10	4
6	<1.0		
COMMEN	rs:		
, talaga			<u> </u>

File C170.0005

Page 1 of 4



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) 10/2008 PAGE 2_ OF 4_

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
. 1	5.2	76	<u><</u> 50
2	5.9	• 77	<50
3	6.3	76	59
4	5.6	77	<50
5	6.0	77	<50
6	4.4	80	<50
7	4.2	83	<50
8	6.5	76	50
9	8.7	79	58
10	8.5	79	67
11	7.5	70	50
12	8.8	74	<50
13	12.9	74	<50
14	9.8	73	<50
15	10.3	73	<50
16	9.3	72	<50
17	10.5	67	<50
18	8.8	64	<50
19	9.3	68	<50
20	10.0	69	<50
21	10.1	63	<50
22	9.0	64	<50
23	9.2	60	<50
24	9.8	67	<50
25	3.2	59	<50
26	0.1	57	<50
27	0.5	55	<50
28	0.5	57	<50
29	0	55	<50
30	1.7	63	. <50
	10.6	60	<50

DATE	TSS (mg/1)	TDS (mg/1)
6	65	1804
13	26	760
20	2	376
29	13	572

DATE	Sulfate (mg/1)	0&G (mg/1)
No	Sample	Required

PARAMETER	FREQ.	LL	MITS
	. :	MO. AVG.	DAILY MAX.
FLOW	CONT.	N.A.	N.A.
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.
OIL AND GREASE	QRTLY (1)	15	20
SULFATE	QRTLY.(1)	N.A.	N.A.
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	6.0 - 9.0	6.0 - 9.0
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: _____No pH excursions occurred this month.

File C170.0005



PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) <u>10/2008</u> PAGE <u>3</u> OF <u>4</u>

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	pН
	No	Sample	Required	
		- 14		
			1.4.2	

SANITARY WASTE

PARAMETER		LIMITS (mg/l)		
	FREQ.	MO. AVG.	WKLY. AVG.	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	70	110	
BOD	QRTLY (1)	45	65	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/1)	0 and G (mg/1)	COD (mg/l)	рĤ
	·					
		No	Sample	Required		

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	0 and G (mg/l)	рН	TRC (ug/l)
	No	Sample	Required		

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and G	QRTLY(1)	15	20	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY(1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COMMENTS: Note that the discharge from the converted wetland and the flows reported herein are NOT discharged, as Outfall (#007) is recycled to the head of the Water Treatment Plant for further treatment and reuse.

Outfall #016 TRC results on Attachment 1

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005



10/2008

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) ____ PAGE ____ OF ____

NPDES MONITORING REPORT

"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."

Preparer (12214) ,(2119) ail Yan Reviewer Approved Plant Manager

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ATTACHMENT 1 DATE: <u>10/2008</u>

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

Date	TRC (ug/ml)
6	50
7	165
8	135
10	50
	5

I:\CHEMSTRY\ADMIN\NPDES\ATTACHMENT I WORKSHEET.DOC

ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) PAGE 1_OF 4_ 11/2008

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	рН	PARAMETI	R FREQ.	L
3	6	.089	12	<u> </u>	7.62			MONTHL
5	7	.093	4	238	6.8			AVERAG
7	6	.081	3	83	6.93	FLOW (MGI) EB	N.A.
11	7	.091	5	481	6.98	pH (STD)	EB	6.0-9.0
12	6	.092	2	759	6.42	TSS (mg/1)	EB	30
13	7	.092	2	422	7.42	Boron (mg/l)	EB	N.A.
16	6	.092	.4	326	7.86	TRC (ug/l)	Monthly	N.A.
20	7	.093	15	75	8.03	BOD (mg/l)	Monthly	N.A.
22	6	.093	10	87	8.99	O&G (mg/1)	Monthly	15
25	7	.090	11	18	7.91	ALL SAMPL	ES ANALYZ	D BY Ameren
		.030		40	1.51		TIONS LABO	
						4	PECIFIED UN	
						SOURCES		
1990 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -						1 = WAST	E MONITOR '	TANK A
						2 = WAST	E MONITOR '	TANK B
						3 = STEAN	GENERATC	R BLOWDOW
							IQ. WASTE M	
			<u> </u>			e a la construction de la construct	IQ. WASTE M	
						gi i de la composición	ADWASTE D	aya da da ƙasar
							ADWASTE D	
						EB = EACH		
			<u></u>					
						Date	BOD (mg/i)	TRC (ug/l)
						3		<10
						15	2.0	
			<u> </u>			ر است. مراجع		
						COMMENTS	li <u></u>	
						2017 <u>- 1997 - 1997</u> 2017 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 2017 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		<u>.</u>
						d at gant		
							<u> </u>	397
			<u></u>					

PARAMETER	FREQ.	LIMITS		
	MONTHLY AVERAGE		DAILY MAX	
FLOW (MGD)	EB	N.A.	N.A.	
pH (STD)	EB	6.0-9.0	6.0-9.0	
TSS (mg/1)	EB	30	45	
Boron (mg/l)	EB	N.A.	N.A.	
TRC (ug/l)	Monthly	N.A.	190	
BOD (mg/l)	Monthly	N.A.	N.A.	
O&G (mg/1)	Monthly	15	20	
ALL SAMPLES	ANALYZEL	BY Ameren UE	Callaway	

neren UE Calla USING SR 20-7.015

DOWN

TANK A

TANK B

B TANK A

E TANK B

•	Date	BOD (mg/i)	TRC (ug/l)	O&G (mg/l)
	3		<10	7
	15	2.0		
1.14				
			an a	



NPDES MONITORING REPORT

11/2008

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)	
1	8.2	63	<50	
2	5.5	62	<50	
3	3.0	65	<50	
. 4	0	62	<50 *	
5	0	64	<50 *	
6	0	66	<50 •	
7	0	61	<50 *	
8	0	64	<50 .	
9	4.2	57	79	
10	5.8	60	177	
_11	4.8	64	<50	
12	4.7	63	<50	
13	8.7	66	<50	
14	6.6	72	<50	
15	5.5	65	<50	
16	6.0	62	<50	
17	7.2	62	<50	
18	5.2	60	70	
19	0.7	62	108	
20	1.0	63	101	
21	6.4	59	70	
22	5.0	58	_51	
23	3.3	61	237/50 (2)	
24	4.4	60	<50	
25	4.4	60	<50	
26	4.0	60	<50	
27	5.6	60	<50	
28	5.6	60	<50	
29	5.6	58	<50	
30	5.5		<50	

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)

PAGE 2 OF 4

		TSS	TDS
D /	(TB	(mg/1)	(mg/1)
6.14	3	7	500
	10	34	792
	17	52	1130
	24	55	1946
	1		

			1				- 1
D.	ATE		Sulfate (mg/l)		, ,	0&G (mg/1)	
	10		380			6	
	$\sim -\phi$	1.1		1 1			
		<u></u>		1.1			

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

*Dip samples	an a
(2) NPDES exceedance of 237 ug/l T	RC. Five-day report
submitted,	

File C170.0005



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NPDES MONITORING REPORT

11/2008

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)	рН
18	0.018	5	<1	7.43
	DATE	DATE (MGD)	DATE (MGD) (mg/l)	DATE (MGD) (mg/1) (mg/1)

SANITARY WASTE

PARAMETER		LIMITS (mg/1)			
	FREQ.	MO. AVG.	WELY. AVG.		
FLOW	QRTLY (1)	N.A.	N.A.		
TSS	QRTLY (I)	70	110		
BOD	QRTLY (1)	45	65		
pli	QRTLY (1)	6.0 - 9.0	6.0 - 9.0		

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/1)	CO D (mg/ D)	pН
14	10	.015	107	3	15	8.12
[4	11	.066	24	2	18	8.2
14	12	.005	8	4	10	8.91
14	_15	.010	0	2	5	8.24

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AYG.	DAILY MAX.	
FLOW	QRTLY. (1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY (1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/1)	O and G (mg/l)	pН	TRC (ug/l)
13	5.18	9	2	7.82	93

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY (I)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
Oand G	QRTLY (1)	15	20	
pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: <u>Note that the discharge from the converted wetland and</u> the flows reported herein are NOT discharged, as this Outfall (#007) is recycled to the head of the Water Treatment Plant for further treatment and reuse.

No discharge noted on Outfall # 013	 	*		
No discharge noted on Outfall # 014	1.1		44	10
3			44. A T	

Outfall 016 TRC sample results on Attachment 1.

OUTFALL 017

ULTIMATE HEAT SINK

No Discharge

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

File C170.0005





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NPDES MONITORING REPORT

"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."

122107 2119

1430 Approved (Pin#)

Plant Manager

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CA0320 01/11/05

1.00	Á	TTA	CHM	EN	T 1
	~		1	77.77	
DAJ		1.1	<u>11/08</u>	1.1	<u></u> .
	1 N N N N				

1

Date		TRC (ug/ml)	· · .,
10	+	<50	
11	4.4	<50	
12		167	
13		93	
15		<50	
18		<50	1.1.1
19		<50	

Cooling tower bypass after addition total residual chlorine (TRC) results (ug/ml).

I:CHEMSTRYADMININPDESIATTACHMENT 1 WORKSHEET.DOC

ATTACHMENT 1

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)_____12/2008 PAGE _1__OF _4__

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	pH -		PARAMETE	R FREQ	LI	MITS
3	6	.093		89	8.88				MONTHLY	
10	7	.094	5	26	6.42		1. <u>1. 1.</u> 1. 1.	· ·	AVERAGE	MAX
13	6	.092	4	131	6.07	<u> </u>	FLOW (MGD) EB	N.A.	N.A.
18	7	.093	27	1	6.66		pH (STD)	EB	6.0-9.0	6.0-9.0
22	6	.092	13	46	6.17		TSS (mg/1)	EB	30	45
25	7	.092	18	76	6.55		Boron (mg/l)	EB	N.A.	N.A.
						7	TRC (ug/l)	Monthly	N.A.	190
		· · · ·			· · · · ·		BOD (mg/l)	Monthly	N.A.	N.A.
	+				· · · · ·	1	0&G (mg/1)	Monthly	15	20
<u></u>			· · · · ·		<u> </u>	4	ALL SAMPLE	SANALYZE	D BY Ameren L	JE Callaway
						-			ATORY USIN	-
	h					-			DER 10CSR 20	
						4	METHOD3 3	ECIFIED ON	DER IUCSK20	-7.015
						-	·			
							SOURCES	•		
							I = WASTE	MONITOR T	ANK A	*.
					· · · · ·		2 = WASTE	MONITOR T	ANK B	
			1		· · · · · · · · · · · · · · · · · · ·	1	3 = STEAM	GENERATO	R BLOWDOWN	4
	h		· · · · · · · · · · · · · · · · · · ·			-	4 = SEC. LI	Q. WASTE M	ONITOR TANK	CA
						4			ONITOR TANK	
	 		· · · · · · · · · · · · · · · · · · ·			-		•	SCHARGE TAL	
		<u> </u>				4	-		SCHARGE TAI	
						-				VN D
						4	EB = EACH I			
						`	Date 1	SOD (mg/l)	TRC (ug/l)	O&G (mg/l
							3	220	<10	4
						7				
						1				
		······		· · · · · ·	······	1				
		· · · · · · · · · · · · · · · · · · ·				4.	I	<u> </u>	استيني	
						`	COMMENTS	<u></u>	·	
										
		· · · · · · · · · · · · · · · · · · ·			Turun	٦.			· · · ·	. <u>.</u>
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NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
_1	5.7	87	<50
2	5.6	58	<50
3	7.3	59	<50
4	5.5	57	<50
5	5.3	57	<50
6	5.3	57	<50
7	5.5	57	84
8	5.3	58	182
9	5.4	59	<50
10	5.3	57 -	<50
11	5.0	56	86
12	5.3	57	104
13	4.8	59	<50
14 :	6.6	61	<50
15	3.6	55	<50
16	3.9	54	<50
17 .36	4.0	55	<50
18	7.3	56	53
19	3.3	57	100
20	4.6	56	97
21	4.4	54	68
22	4.1	54	<50
23	4.2	53	57
24	5.5	55	<50
25	4.4	54	106
26	5.8	61	<50
27	4.6	62	<50
28	4.1	59	<50
29	43	60	<50
30	4.3	61	<50
31	43	57	<50

DAT	E	TSS (mg/])	TDS (mg/l)
1		60	1888
8	10 1	44	1644
. 15		52	812
23		14	356
30		50	1414

_		- 2		
ſ	DATE	Suifate (mg/l)	0&G (mg/l)	
٠Ē	No	Sample	Required	
Ē				

PARAMETER	FREQ.	LI	MITS	
	· · · ·	MO. AVG.	DAILY MAX	
FLOW	CONT.	N.A.	N.A.	
TOTAL SUSPENDED SOLIDS	WKLY.	N.A.	N.A.	
TOTAL DISSOLVED SOLIDS	WKLY.	N.A.	N.A.	
OIL AND GREASE	QRTLY (1)	15	20	
SULFATE	QRTLY.(1)	N.A.	N.A.	
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F	
pH	CONT.	6.0 - 9.0	6.0 - 9.0	
TOTAL RESIDUAL CHLORINE	DAILY	N.A.	190 ug/L	

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LAB USING METHODS SPECIFIED UNDER 10CSR20-7.015.

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

COMMENTS: No pH excursions occurred this month.

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NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/l)	pН
	No _	Samples	Required	
		1		· · · · ·
		1		
		<u></u>		· · · · · · · · · · · · · · · · · · ·
		1		

SANITARY WASTE

PARAMETER		LIMITS (mg/1)		
	FREQ.	MO. AVG.	WELY. AVG.	
FLOW	QRTLY(1)	N.A.	N.A.	
T\$S	QRTLY(1)	70	110	
BOD	QRTLY(1)	45	65	
рН	QRTLY(I)	6.0 - 9.0	6.0 - 9.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER

OUTFALL 009 INTAKE HEATER BLOWDOWN

NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/l)	CO D (mg/ I)	рН
		No	Samples	Required		
	<u></u>					

OUTFALL 016

755

(mg/1)

Samples

O and G

(mg/1) Required pН

TRC

(ug/l)

FLOW

(MGD)

No

STORM WATER RUNOFF PONDS

PARAMETER	FREQ.	LIMITS		
		MO. AVG.	DAILY MAX.	
FLOW	QRTLY.(1)	N.A.	N.A.	
TSS	QRTLY (1)	N.A.	N.A.	
COD	QRTLY(1)	N.A.	N.A.	
O and G	QRTLY (1)	15	20	
pH	QRTLY(1)	>6.0	>6.0	

(1) SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, NOVEMBER.

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
	``'	MO. AVG.	DAILY MAX. N.A. 100 20	
FLOW	QRTLY (1)	N.A.	N.A.	
TSS	QRTLY (1)	30	100	
O and O	QRTLY (1)	15	20	
рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0	
TRC	QRTLY (1)	N.A.	190	

 SAMPLES SHALL BE TAKEN DURING THE MONTHS OF FEBRUARY, MAY, AUGUST, and NOVEMBER.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

DATE

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015 COMMENTS:

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PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) _ PAGE _4_ OF _4__

NPDES MONITORING REPORT

12/2008

"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."

mail 5408 Preparer Approved (Pin#) (Pin# Plant Manager

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