Enclosure K

NPDES reports for each quarter for 2004 through 2008

Enclosure K: Callaway NPDES reports for each quarter for 2004 through 2008

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	

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 TOTAL PAGES 5



C

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATES	VSOURGE	ELOW A	TSS (mg/l)	Boron 140	THE PARTY
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	9	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
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		·			

PARAMETER)	FREC	A PARTIES	LO MAN
		MONTHLY WAYERAGE	UXILV. MAX
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	EB	6.0-9.0	6.0-9.0
TSS (mg/1)	ЕВ	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

A STATE OF THE STA	1.8	30	2
			
			ļ
OMMENTS:			

File C170.0005

Page 1 of 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

1	2.0	62	.17	300
2	4.4	63	.09	90
3	0	57	13	450
4	0	68	*1	*1
5	0	64	.18	510
6	0	58	.14	260
7	C	61	.18	540
8	0 .	55	*1	*I
9 `~	1.9	58	.02	160
10	0	64	*1	*1
11	0	65	*1	*]
12	0	59	18	480
13	1.1	62	<.01	80
14	0	48.	*1	*1
15	1.0	60	.14	440
16	2.9	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
23	4.6	- 69	.02	50
24	3.3	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

A PROPERTY OF	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN TRANSPORT NAMED IN THE PERSON NAMED	
4	70	2304
9	33	1508
16	63	1402
23	120	1644

70.VII.		
9	786	
16 ·	686	1.0

			700
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
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)
TEMPERATURE (MAXIMUM)	DAILY	110°F	110°F
pH	CONT.	60-90	6.0 - 9.0

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: *1 Blowdown secured.	
No pH excursions occurred this month.	

File C170.0005

Page 2 of 4

PERMIT NO. MO-0098001
REPORTING PERIOD (MO/YR) February, 2004
PAGE 3 OF 4

- NPDES MONITORING REPORT-

OUTFALL 003 , WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

SANITARY WASTE

ĺ	20		.005	4	3.2	7.47
I						
ľ		-		• • •		
ľ						
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ľ	•	-				

BOD	QRTLY(1)	45	65
TSS	QRTLY (1)	70	110
FLOW	QRTLY(I)	N.A.	N.A.
		MACAYGE!	WWW.AVG

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

OUTFALL 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

	(071) 7101	TYTOTO I			(cop)	
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	<5	7.91
20	15	.009	5	2	20	8.40

STORM WATER RUNOFF PONDS

PARAMETER	建設的1805	载热部 原制以	MYENE
		MMOANGE	EDALLY MAXE
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

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

OUTFALL 016

12	7.3	12	3.	8.04	60
•					

COOLING TOWER BYPASS

		MORAYGA	IMITES AND
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.

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

Page 3 of 4

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

UOTCR 04-020

June 8, 2004

Steven S. Weiss Mail Code 602

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



TOTAL PAGES 5

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) May, 2004 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	Soile	(a) (a) (a) (a)	(ES) (ETD)		
3 5	7	.092	14	388	6.84
	6	.091	14	8	7.33
8	7	.093	9	270	7.34
12	6	.093	10	66	7.23
20	7	.091	10	22	7.37
22	6	.093	16	310	7.17
24	7	.091	13	30	7.78
28	6	.089	34	35	7.66
30	7	.092	14	217	7.35
31	. 6	052	20	189	7.27
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TATE ETT.	TIO)	HIVE	要是1.5c.
		MOSTEDY- AVEZ (03)	DATEY.
FLOW (MGD)	EB	N.A.	N.A.
pH (STD)	E8	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
BQD (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

3	4.4	0.0	9
			
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File C170.0005

Page 1 of 4

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

		iii.	医生物	新国等
TATE OF	(Men)	10 v 3) a	TAC (mad)	(CD)
(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) 28	6.6	73	<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
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	<u></u>		i	

10/00	TSS Graph	
4	7	1004
20	9	480
25	6	214
31	21	246
	1	

DXVI	S.Tcc (0. D)	OCC (WW)
4	458	3
20	180	1

PARAMETER.	DALEO.	12.68 12.68 18.68	UMATAT UMW
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: (2) DIP SAMPLE,	
No pH excursions occurred this month.	
No CTBD on dates not listed	

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) May, 2004 PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

		4	. • .		4.00			
J;	$D_{i}Y$	ME	KRE	可能等等	18 X 4 1	E 200	$\mathcal{P}(z)$	LINITS (
Til.	630					100	410.3	

DATE		TSS T		
18	.013	5		7.76
25			12.4	••
		[,

DEXCENSE USE	李明明	En lett	IIS(m(J))
	THE STATE OF THE	MOTAVOS	WANGAVE:
FLOW	QRTLY *	N.A.	N.A.
TSS	QRTLY *	70	110
BOD	QRTLY *	45	65
pH	QRTLY *	6.0 - 9.0	6.0 - 9.0

SANITARY WASTE

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

STORM WATER RUNOFF PONDS

DATE!	(Ουτιγλία)	ELOWA (MGD)	1155	(a(G (a(J))	(COD)	
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

		MOYAVG	DAILYMAX
FLOW	QRTLY. *	N.A.	N.A.
TSS	QRTLY *	N.A.	N.A.
COD	QRTLY *	N:A.	N.A.
O and G	QRTLY *	15	20
ρΉ	QRTLY*	>6.0	>6.0

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

OUTFALL 016

COOLING	TOWER	BYPASS

BPARAMETERS	E REQ		ars de la company
	Back of the	BMO.AVG.	DAILYMAX
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.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

20

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

COMMENTS:		 •••	
	•		

File C170.0005

Page 3 of 4

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

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

Deviewer

Approved

Plant Manager

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_6_



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

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	pН
5	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	n	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
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			<u> </u>	l	<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 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
- $5^{\circ} \simeq \text{SEC. Liq. Waste monitor tank B}$
- 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		-

of ETA.	 		
	 		

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR) August, 2004 PAGE 2 OF 4

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

		٠		سند
DATE:	DLOV (MED)	1137.TP (2007.917	FAG	TEG (EFD)
A STATE SHARE	(MGD)	(M)797	(674)	(E170) "
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
- 11	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

or DAVITS	(EFE)	(m:A)
2	61	2360
9	46	1944
16	46	2072
23.	56	2256
30	67	1764

DXVII	Salfato (vicili)	@@G (@7/I)
2	1400	1.9

PARAMETER .	FREQ.	<u>U</u>	ШМы	
		MO. AVE.	MAYEY MAYE	
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	
рH	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	No PH excursions occurred this month.			

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

NPDES MONITORING REPORT

OUTFALL 603 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

STE
STE

DAVIE	OLOXV (MOD)	USS =(m/ I I)	EOD (IIII)	<i>911</i>
13	.001	10		7.08
18	.001	18	16	7.3
		ļ	·	
····				

PEVERMONER		120 DIS (TE/I)		
	1.13 <u>0</u> ,	MOLAVOS	Walls Alles	
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

STORM WATER RUNOFF PONDS

DATES	OUT AND	(MGD)	(tar/L)	October (auxB)	(1990) -	ρΠ
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	ī	25	8.94
1.1	14	.082	8	l.	. 23	10.32
- 11	15	.033	10	1	33	8.10

PARAMETER FREQ.		PULATES .		
		MOZAVC.	DALLYMAX	
FLOW	QRTLY. *	N.A.	N.A.	
TSS	QRTLY *	N.A.	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.

OUTFALL 016

DATE	ELOW (MGD)	(myll)	Ocalico (m/b)	ØIJ	TIRG (ug/I)
11	2.16	20	2	8.17	90

COOLING TOWER BYPASS

RARAMETE	37 FIREO	UNITES	
		MO.AVE.	DAILEYMAX
FLOW	QRTLY •	N.A.	N.A.
TSS	QRTLY *	30	100
O and G	QRTLY *	15	20
pH	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.

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 results on Att	achment 1.
	· · · · · · · · · · · · · · · · · · ·	

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

Reviewer

Plant Manager

ATTACHMENT 1 AUGUST 31, 2004

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

<u>Date</u>	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

UOTCR 04-042

December 10, 2004

Steven S. Weiss Mail Code 602

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

TOTAL PAGES 45

PERMIT NO. MO-0098001 REPORTING PERIOD (MO/YR)November, 2004 PAGE 1 OF 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD).	TSS (mg/l)	Boron (mg/l)	ρН
3 5	7	.091	15	19	6.44
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
· · · · · · · · · · · · · · · · · · ·				,	
					· ,
	1				
•					
	 				
	 				
	+				
	 				
	 				
 					

PARAMETER	FREQ.	LIMITS		
			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 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

Date	HOD (mg/l)	TKC (ug/t)	O&G (mg/l)
. 3	. 472	<10	1.4
COMMEN	Te	L	L.,
COMMEN	IS:		
			

File C170.0005

Page 1 of 4

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

D.VII3	FLOV (C.GD)	WANT WANT SE	EXXC	जि.उड (urfi)
1	5.3	79	.04	160
2	3.5	77	.02	200
3	2.6	72	.03	110
4	4.6	74	<.01	130
5	2.1	74	.02	50
6	5.8	82	.02	90
7	5.9	78	<.01	40
8	3.7	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

DATE	(E.S.)	(tar/ L)
1	. 49	2372
8	79	1484
15	59	1724
22	72	2024
29	30	1540

	moliti)	03 (E9)	m
1	978	. 8	

PARAVMEUER	DREO.	iù.	WMFIS	
		MO ANTO	DAMEN MANG	
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 America 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 Attachment 1 for the one time asbestos monitoring of Outfall 002 required by the new NPDES permit.

File C170.0005

Page 2 of 4

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

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

SANITARY WASTE

DATERA	FLOW MINIOTO IN THE PROPERTY OF THE PROPERTY O	TSS	兵 BOD (mg/1)	
10	.04	9	7	9.2
				
				<u> </u>
	ļ	·		ļ

PARAMETER		SERVICE	US (III g/D) Philips
	FREO	MOVAVE.	WKLIY SAVGE
FLOW	QRTLY *	N.A.	Ñ.A
TSS	QRTLY *	70	110
BOD	QRTLY *	45	65
pН	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

STORM WATER RUNOFF PONDS

DANES	OUTH XXVIII.	BLOW!	(ar/D)	0adC (wA)	(E17/I)	η (i l
19	01	.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	I	22	7.93
19	15	.058	50	1	22	8.14

BRARAMETER	THE O	I I I I I I I I I I I I I I I I I I I		
		MOMANG	DAILBYMAX	
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.

OUTFALL 016

DOTE	(ECCD)	ESS (ESS)	@@##G (@###)	pĐ	ार्गे २६ (एन्स्री)
9	0.94	13	3	7.91	<10
(2) 29	1.37	78		••	

COOLING TOWER BYPASS

PARAMETER	EREO	TUNTUS		
		140.AVC	DALBYMAX	
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.

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.	(2) Ulah TCC	acculend in manch	ily average being
COMMENTED 19.	ISTURAL ISS	resulted in mond	HA WACLUSE Details
	exceeded.	High TSS due to	loss of poly feed.

File C170.0005

Page 3 of 4

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

Page 4 of 4

CA0320 01/15/04

Plant Manager

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 Tex 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) November, 2004

PAGE 3 OF 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

ı

SANITARY WASTE

100			
FLOW	QRTLY *	N.A.	N.A.
TSS _	QRTLY *	70	110
BOD	QRTLY *	45	65
pН	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

CTODE	BEZ A TOTALID	RUNOFF	DONNE
PYONIA	WALLK	KUNUER	KONDO

	Some tra	FUCY Man		orande Tilen	(3(0)0) ·	
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

		MO AVGE	DAIDAMA
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.

OUTFALL 016

			onitel media		
9	0.94	13	3	7.91	<10
(2) 29	1.37	78			

COOLING TOWER BYPASS

PARAMETE	R C PREC	a de la compa	MEDS 25 EST
		MOZAVOZA	DATORNIAN
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.

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: (2)	High TSS	resulted in	monthly	average	being
	exceeded.				

File C170.0005

Page 3 of 4

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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TOTAL PAGES 5

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NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW.	(mg/I)	Boron (mg/I)c	pH
1	6	.090	30	9	8.62
3	7	.093	12	10	6.61
4	6	.092	11	7	6.13
5	7	.093	10	16	8.45
6	6	.093	14	6	7.77
10	7	.093	13	10	8.46
11	.6	.092	10	9	8.45
15	7	.091	35 (1)	<.3	8.85
23	6	.090	6	5	8.66
25	7	.093	10	63	8.83
26	6	.093	2	124	8.32
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		-			
				 	
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		<u>. </u>		ļ	
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		L			

PARAMETER.	FREG	LIM	TS .
		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 CAMPLES	ANIAL VZE	NOV Amount III	Callanan

ALL SAMPLES ANALYZED BY Ameren UE Callaway
Plant OPERATIONS LABORATORY USING
METHODS SPECIFIED UNDER IOCSR 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&C (mg/l),
3	226	20	2

COMMENTS:

(1) Exceeds	monthly average limit but is below the daily
max limit.	Actual monthly average is 13.9.

File C170.0005

Page 1 of 4

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	MOV (MED)	THEAP (LINE) STP	T.C.C (UF/I))
A STATE OF STATE OF	2.0	62	~10
2	4.1	64	60
3	6.1	67	50
4	5.1	73	60
5 s	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
		,	

DATE	USS (DVD)	(U)S (U)(U)
7	.57	1576
14	69	2988
21	96	2312
28	51	1364

TI V V TT	S.IJm (III)	CEEC (mg/li)
7	742	

PASCANTOTORS	12.1.10	10	Y1018	
		411/0-	DAIDI -	
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.	

File C170.0005

Page 2 of 4

PERMIT NO. MO-0098001 REPORTING PERIOD FEBRUARY, 2005 PAGE 3 of 4

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	755 (mg/1)	F(mp/1)	A. C.		
10	.177	4	4	7.89		
,						

SANITARY WASTE

PARAMETER	A Share	Y XX LIM	TIS (MICLUS A) Q
THE REAL PROPERTY.	PREQ	MO AVG	WKLY AVG
FLOW	QRTLY(I)	N.A.	N.A.
TSS	QRTLY(I)	70	110
BOD	QRTLY (1)	45	65
pΗ	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

			. 140		4.7	4. * * * * * * * * * * * * * * * * * * *
DATE	OUTFALL	'FLOW (MGD)	(TSS //mg/1)	0 and G (mg/1)	COD (mg/l)	рĦ
7	10	.035	6	2	22	8.25
7	il	.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
-	15	023	16	^		0.56

STORM WATER RUNOFF PONDS

PARAMETER	FREQ'S	17.15 E. D	MITS
るなで、いって、	301	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 (1)	15	20
pН	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:	O and G	рН 1 '2	TRC
10	1.62	10	2	7.86	<10

COOLING TOWER BYPASS

PARAMETER.	PREQ'	LIMITS		
- Aller Charles	3.0	MO AVG	-DAILY MAXA	
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.

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

Page 3 of 4

PERMIT NO. MO-0098001 REPORTING PERIOD FEBRUARY, 2005 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

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:Imb

Attachments

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

00086387

TOTAL PAGES 5

PERMIT NO. MO-0098001 REPORTING PERIOD MAY, 2005 PAGE 1 of 4

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW -	755 (800/)	Boron .	J. Maria
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
1					
		·			
				·	·

PARAMETER	PREG.		
		MONTHLY AVERAGE	D (ID)
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

P Date	BOD (mg/l)	TRC (ug/l)*	O&G (mg/f)
19		20	5
25	32		
COMMEN	rs:		

-,		
	···	

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	FLOW (MGD)	TEMP (MAX-9F	TRC (ug/l)
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	8.5	- 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 !	50
31	6.4	83	35 (2)

DATES	TSS	TDS (mg/l)
2	1544	23
9	2414	86
. 16	1212	61
23	1608	25
30	2416	36
	<u></u>	<u> </u>

DATE ~	Sulface (mg/1)	O&G. (mg/1)
2	854	0.4

"PARAMETER	FREQ	': LI	LIMITS	
		MQ"	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) By spectrophotometric method	

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

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

SANITARY WASTE

DATE.	(MGD)	TSS (mg/1)	30D (mg/l)	
5	.00001	9	19	7.36
	ļ			

PARAMETER,	12.2	TA LIM	四個心學講教
	FREQ	MO AVG"	WELY. AVG
FLOW	QRTLY(I)	N.A.	N.A.
TSS	QRTLY(I)	70	110
BOD	QRTLY(I)	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 602 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

STORM WATER RUNOFF PONDS

DATE	OUTPALL		TSS (mg/1)	O and G	COD:	Hip 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

"PARAMETERS FREQ		LIMITS		
COLUMN TO SERVE	4. 6.	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	
рH	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	рH	TRC (ug/l)
4	1.6	8	2	7.95	50

COOLING TOWER BYPASS

PARAMETER:	FREQ	LIMITS		
	NE	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(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, 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:	
(2) Samples exceeded the 28 days from	om date of sample to time of
anatysis.	·····
	-

File C170.0005

Page 3 of 4

PERMIT NO. MO-0098001 REPORTING PERIOD MAY, 2005 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

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)	pН
2	6	.092	4.4	17	8.57
4	6	.052	4.9	48	6.65
6	6	.092	3.2	0.3	8.94
7	7	.094	4	19	8.26
10	6	.091	8.4	29	8.54
13	7	.093	4.1	32	8.90
19	6	.093	4.5	17	8.81
23	7	.093	3.3	7	8.51
26	6.	.093	3.9	28	6.86
28	7	.094	6	45	7.56
30	6	.093	4.8	.56.	6.89
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				<u> </u>	
	<u> </u>		<u> </u>	L	L

PARAMETER	FREQ.	LIMI	75
		MONTHLY AVERAGE	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)
4	2		
ì	_	50	2.2

	COMMENTS:	
•		

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

TSS (mg/l)	TDS (mg/l)
48	2088
94	1340
62	1709
28	1448
. 25	616
	(mg/1) 48 94 62 28

DATE	Sulfate (mg/l)	O&G (mg/1)
. 8	1000	5.6

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, NOVEMBER.

COMMENTS: No pH excursions occurred this month.

PERMIT NO. MO-0098001 REPORTING PERIOD <u>AUGUST</u>, 2005 PAGE <u>3 of 5</u>

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL.007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	рH
18	.0006	18		7
28	.0006	36	3	8.98
	1			

SANITARY WASTE

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

STORM WATER RUNOFF PONDS

MO. AVG.

N.A.

N.A.

N.A.

>6.0

LIMITS

DAILY MAX.

N.A.

N.A.

N.A.

(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

•	•	_	_	

FLOW	7SS	0 and G	COD		PARAMETER	FREQ.
(MGD)	(ing/l)	(mg/1)	(mg/l)	pH	<u> </u>	ł
.065	9.6	1.5	33	8.59	FLOW	QRTLY. (
.298	19.1	1.5		801	TSS	QRTLY (
.270	19.1	1.3	. 33	8.01	COD	QRTLY (
.023	39	27	38	8.84	O and G	QRTLY (
.026	7.3	1	33	8.77	рН	QRTLY(
.107	41	1	.13	8.04	(I) CAMPLES	SHALL BE 1
043	10	15	25	9.65		ANALL DE I

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

OUTFALL 016

DATE	FLOW. (MGD)	(mg/l)	O and G (mg/l)	рH	TRC (ug/l)
8	2.17	12	1.4	8.34	50

COOLING TOWER BYPASS

PARAMETER	FREQ	LIMITS		
	İ	MO. AVG.	DAILY MAX.	
FLOW	QRTLY(1)	N.A.	N.A.	
TSS	QRTLY (I)	30	- 100	
O and G	QRTLY (1)	15	20	
рН	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, NOVEMBER.

OUTFALL 017

ULTIMATE HEAT SINK No Discharge

OUTFALL

10

11

12

13

14

15

DATE

17

17

17

17

17

17

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

COMMENTS: Outfall 016 TRC results on Attachment 1.	

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

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

Operations Manager

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)

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

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

OUTFALL 001 RADWASTE SYSTEM

DIE	conter.	GIOW (MGD)	(ES) (1-7D)	Baron ()	
2	7	.08	10	8 .	7.15
3	6	.055	6	51	7.12
6	7	.091	16	67	8.08
10	6	.085	12	81	7.89
12	7	.093	12	3	8.86
15	6	.092	11	7	6.96
17	7	.092	16	64	6.82
18	6	.094	6	88	6.6
19	7	.085	22	238	· 7.23
22	6	.093	11	399	7.01
23	7	.094	17	136	7:27
25	6	.093	13	483	6.61
28	, 7	.093	8	0.3	6.84
29	6	.093	11	· 2	6.56
				:	
					
					
<u> </u>					
					<u></u>
l		1		<u> </u>	

PARAMETER	THE	.egi	iei .
		MONULLAY AND TAGES	DAIDT:
PLOW (MGD)	EB	N.A.	N.A.
pH (STD)	ЕВ	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/l)	Monthly	15	20

ALL SAMPLES ANALYZED BY Ameren UE Callaway Plant OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER IOCSR 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

Date 10	(LOD(mg/l)	IRC(UZI)	O&G (m
2	5	150	7
10		20	
DMMEN	rs:		
·······			

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DATE	(MGD))	TEAD? SOUNTS 17	TIG (7)
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	<50
6	0.6 (2)	63	<50
7	0.3 (2)	56	<50
8	4.5	60	ර0
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)	50	<50
16	0 (2)	33	<50
17	0 (2)	55	<50
18	0.3 (2)	47	<50
19	0 (2)	61	<50
20	1.7	61	<50
21	1.6	65	<50
22	4.1	65	<50
23	4.2	69	<50
24	4.3	71	<50
25	4.3	66	<50
26	4.3	75	<50
27	3.5	79	<50
28	4.8	71	<50
29	5.9	63	<50
30	5.63	65	<50

A HOATE	TESTE (mg/I)	
7	253 (3)	336
14	7	308
21	43	1130
28	82	1120

DATER		
14	168	1

PARAMETER	SAFREQ.	TOWN LIN	AITS STEEM
		AVG	DAILY.
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) Dip Samples.	
(3) Basin Level yery low and murky bard.	o sample

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

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

SANITARY WASTE

a baras	FLOW MGD)		BOD 社	建設出籍
16	.07	4	5	7.95
<u> </u>				
	:			

PARAMETER		建筑地	IITS (mg/l) DAL A
SECOND	FREO	MONAYC!	WKLYSAYG.
FLOW	QRTLY(1)	N.A.	N.A.
TSS	QRTLY(I)	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

STORM WATER RUNOFF PONDS

DATE	OUTFALL	FLOW.	S(mg/I)	10, and G	TCODE:	Tank.
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	i	40	9.56
14	14	.062	69	1	48	8.82
14	15	.025	. 11	1	50	8.38

			MITSWARELIA
THE PROPERTY.	在 在 法 的 经 经 	BHO AVG	PDAILYIMAX
FLOW	QRTLY. (1)	N.A.	N.A.
TSS	QRTLY (1)	N.A.	. N.A.
COD	QRTLY(I)	N.A.	N.A.
O and G	QRTLY (1)	15	20
рH	QRTLY(I)	>6.0	>6.0

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

OUTFALL 016

ANDATE IN	FLOW, F (MGD)		O and G		TRG!\ :(@g/l) ?:
14	6.8	4 .]	8.32	<50
21					148

COOLING TOWER BYPASS

₹PARAMETER	HEFREQUE	SACRETURE L	MITSERNALIS
学的加加斯姆		SMOJAVG	BDAILY/MAX
FLOW	QRTLY(1)	N.A.	N.A.
TS\$	QRTLY(1)	30	100
O and G	QRTLY (1)	15	20
рH	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, 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:	_
(2) Sample for oil and grease taken 11-09-05.	
	_

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

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.

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

niri.	Sprace	FLOW (MGD) 4			
3	6	.081	20	21	8.42
16	7	.094	15 12	3 8	8.92 6.37
24	6	.092	12	8	6.37
				· · · · · · · · · · · · · · · · · · ·	
		·			
					
					, , , , , , , , , , , , , , , , , , ,
				,	

Veneza de la Companya de	and a south translation	Distriction with Smile	
		jan.	
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)	ЕВ	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

S 0 5 7 2 1		CALL DESCRIPTION OF THE PROPERTY OF THE PROPER	STREET,
3		<50	12
16	16		
			
		1	
MMENT	S:	<u> </u>	J
)MMENT	S:	<u> </u>	<u></u>
MMENT	S:	1	
OMMENT	S:	1	

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

1	4.2	73	111
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

43	4000
	2384
57	2168
40	2028
70	2024
	57

		080
6	1226	14

PARAMETER	1000	100	VIII S
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
pН	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 exc	ursions oc	curred this	month.
-----------	-----------	------------	-------------	--------

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

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

SANITARY WASTE

A Pita	FLOW.	TSS (mg/L)	BOD (mg/l)	PH
9	.013	4	9	8.26
				
			· · · · · · · · · · · · · · · · · · ·	
<u></u>	<u> </u>		i i	

PARAMETE	Fallo	MO AVOS	TTS (mV/L) WKC YVA VC= n
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

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

OUTFALL 009 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

STORM WATER RUNOFF PONDS

DATE:	Jonate.		He I	O and Co (Mg/)	COD	, H
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

PARAMETE	R. LERREQUES	松阳和水田	MITSOLITERA
		WOMAN CAN	COATEVANTE SEE
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
рH	QRTLY(1)	>6.0	>6.0

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

OUTFALL 016

in the second	Heb.	(mg/L)s	20/11/07 2 m 7/0	9112	(02/)
16	3.29	10	1	8.32	<50

COOLING TOWER BYPASS

(P) IN All TICE	11110	arro Arre	1775 T.
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.

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: : (1) No Discharge noted.					
	•				

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

Reviewer

Approved

Plant Manager

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

					e pa
		.093	. 15		8.70
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>
					
					
·					

2			
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

- 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

	#1072(m/##)	in the second	0.702(02/02
1	5	90	11
60) (10)		1 200	

COMMENTS: (1) Monthly Average 20.8

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

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

i in in		4	7
1	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	ර0
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

oloni.		
ı	39	2080
8	48	1972
15	59	1444
22	36	1904
29	41	992

1	824	0.4	
			ļ.

A CANADA A	1880		MIK 4
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
pН	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

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

OUTFALL 007

SANITARY WASTE

i do la			BIVE (mpt)	
4	.031	3	2	7.58
	 	<u> </u>	}	<u></u>
	<u> </u>	 	 	
	 		 	
··		l	 	

7.84.46.63			
	0.000		
FLOW	QRTLY (1)	N.A.	<u>N.A.</u>
TSS	QRTLY (1)	70	110
BOD	QRTLY (1)	45	65
рН	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

STORM WATER RUNOFF PONDS

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

	MOLAVGE	EXPERTMENTS
QRTLY. (1)	N.A.	N.A.
QRTLY (1)	N.A.	N.A.
QRTLY(1)	N.A.	N.A.
QRTLY (1)	15	20
QRTLY(1)	>6.0	>6.0
	QRTLY (I) QRTLY (I) QRTLY (I)	QRTLY (1) N.A. QRTLY (1) N.A. QRTLY (1) 15

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

OUTFALL 016

8	2.25	12	2	7.95	<50
7,7,8	Tara /e site				

COOLING TOWER BYPASS

FLOW	QRTLY (1)	N.A.	N.A.
TSS	QRTLY (1)	30	100
O and G	QRTLY (1)	15	20
рH	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 Att	achment i for add	litional TRC resu	lts 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."

Preparer

Reviewer

Approved Plant Manager

ATTACHMENT 1 DATE: MAY 2006

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

<u>Date</u>	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

U3013A

ARD

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

COD

Report Date: 25-May-06 Login Record File: 06050403

General Sample Description: Callaway Plant NPDES Sample
Sample Point: CAL Stormwtr Runoff Outfall 10

27

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

Lab Sample No.: UU09135

Analysis Results Units MDL Code **Parameter Analyst** COD 25 mg/L 1 U3013A ARD General Sample Description: Callaway Plant NPDES Sample Collection Date: 02-May-06 Sample Point: CAL Stormwtr Runoff Outfall 11 Collection Time: 4:00 PM Lab Sample No.: UU09136 Original Sample ID:011 **Analysis Parameter** Results Units MDL Code **Analyst** COD 47 mg/L U3013A ARD General Sample Description: Callaway Plant NPDES Sample Collection Date: 02-May-06 Sample Point: CAL Stormwtr Runoff Outfall 12 Collection Time: 4:25 PM Lab Sample No.: UU09137 Original Sample ID:012 **Analysis** Units MDL Code **Parameter** Results Analyst U3013A COD 20 mg/L 1 ARD General Sample Description: Callaway Plant NPDES Sample Collection Date: 02-May-06 Sample Point: CAL Stormwtr Runoff Outfall 13 Collection Time: 4:15 PM Lab Sample No.: UU09138 Original Sample ID:013 **Analysis** MDL **Parameter** Results Units Code **Analyst**

mg/L

Requestor or Contact: Ron Boutelle
Department: Callaway

Date Received: 22-May-06

General Sample Description: Callaway Plant NPDES Sample

Sample Point: CAL Stormwir 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

			Analysis	
Results	Units	MDL	Code	Analyst
30	mg/L	1	U3013A	ARD
				Results Units MDL Code

Comments:

Approved By:



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
PAGE1 OF4	

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE :	FLOW (MGD)	TSS (mg/l)	Boron (mg/l)	рH
7	6	.093	11	97	8.52
14	7	.092	13	30	8.75
21	6	.093	24	3	8.58
28	7	.091	7	3	8.64
31	6	.093	18	4	8.8
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	,				

PARAMETER	FREQ.	LIM	rts
		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 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)
.7	8	<50	5
COMMEN	ITS:		

PERMIT NO. MO-0098001	
REPORTING PERIOD (MO/YR)	8/6/2006
PAGE2 OF4	

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

DÂTE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
ı	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/l)	TDS (mg/l)
7	54	2084
14	56	2140
21	70	1676
28	54	1880

DATE	Sulfate (mg/I)	O&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
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	d this month.

REPORTI	NO. MO-0098 NG PERIOD OF4		E)8	An 3/6/200		allaway Plant			
AGEJ	0,,			NPDE	S MONITO	RING REPORT			
				w	OUTFA ATER TREAT NO DISC	MENT PLANT			
	Ω	OUTFALL O	<u>07</u>		110 0100		SANIT	ary waste	
DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/1)		рĦ	PARAMETER	FDEC	MO. AVG.	IMITS (mg/1) WKLY, A
2	.0001	17	4	1	5.88	ET OW	FREQ	14 1 7 7 7 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	
	1	1		1		FLOW TSS	QRTLY (1)	N.A. 70	N.A. 110
	+	 	 	 	·	BOD	QRTLY (1)	45	65
	+	 	 	 		pH	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
	<u>out</u>	FALLS 010	- 015	ראו	OUTFA PAKE HEATE NO DISC	R BLOWDOWN HARGE	STORM WATI	E R RUNOFF I	PONDS
	FLO	W TSS	0 and G	COD		PARAMETER	FREQ	西生 : 被: L	MITS A
DATE OUT	FALL (MGI)) (mg/1)	(mg/1)	(mg/l) PH		Company Area	MO. AVG.	DAILY MAX.
3	10 .013	32	111	42	8.61	TSS TSS	QRTLY.(1)	N.A.	N.A.
3	11 .062	13.	1111	27	8.44	COD	QRTLY (1) QRTLY (1)	N.A.	N.A.
3	12 .005	22	3	32	9.47	O and G	QRTLY (1)	15	20
28	13 .005	38	2	15	7.58	рH	QRTLY(I)	>6.0	>6.0
	14 .023 15	12	5 No Discharg	17 e	7.76	(1) SAMPLES S OF FEBRUA	HALL BE TAK RY, MAY, AU		
•	<u>o</u>	UTFALL 0	<u>16</u>	·			COOLING	TOWER BYP	ASS
DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/1)	рН	TRC (ug/l)	PARAMETER	FREQ	MO.AVG.	MITS DAILY MAX.
9	3.5	12	1.0	8.46	<50	FLOW	QRTLY (1)	N.A.	N.A.
, <u>,</u>	ĺ					TSS	QRTLY (I)	30	100
	<u></u>					O and G	QRTLY (1)	15	20
		•				pH TRC	QRTLY (1) QRTLY (1)	6.0 - 9.0 N.A.	6.0 - 9.0 190
	<u>o</u>	UTFALL O	<u>17</u>			(1) SAMPLES S		EN DURING 1	THE MONTHS O
JLTIMATE H No Discharge	EAT SINK					COMMENTS:	After add TR	C results for o	utfall 016 on
LL SAMPLE	S ANALYZED	BY Ameren	UE Callaway	Plant		Attachment 1	·		

OPERATIONS LABORATORY USING METHODS SPECIFIED UNDER 10CSR 20-7.015

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_	
	NUMBER MONITODING DEPORT

"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

CA0320 01/11/05

Plant Manager

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
30	178
· · · · · · · · · · · · · · · · · · ·	

UOTCR060037

December 18, 2006

Steven S. Weiss Mail Code 602

Callaway NPDES Monthly Report



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



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

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/l)	pН
8	6	.092	13	29	8.9
9	7	.093	12	1	8.8
13	6	.092	10	9	7.73
22	7	.094	10	5	6.93
28	6 .	.091	16	3	7.11
				 	
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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/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)
8	19	10	5
COMMEN	MCC.		

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	4.4	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/l)	TDS (mg/l)
6	93	1582
13	68	1732
20	46	1708
27	45	2188

DATE	Sulfate (mg/1)	0&G (mg/1)
6	892	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
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) < I (O)		

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

SANITARY WASTE

DATE	FLOW (MGD)	TSS (mg/1)	BOD (mg/l)	pН
2	.002	4	4	7.11
	1			
	1	!!		

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

STORM WATER RUNOFF PONDS

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/1)	COD (mg/l)	рН
7	16	.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	-

*Sec	comments

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

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

OUTFALL 016

COOLING TO	WER	BYP	ASS
------------	------------	-----	-----

DATE	FLOW (MGD)	TSS (mg/l)	0 and G (mg/1)	pН	TRC (ug/l)
7	1.44	19	3	8.26	<50

PARAMETER	FREQ	LIMITS		
	L	MO. AVG.	DAILY MAX	
FLOW	QRTLY(1)	N.A.	N.A.	
TSS	QRTLY(1)	30	100	
O and G	QRTLY(I)	15	20	
рН	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:	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."

Preparer

Reviewer

Page 4 of 4

Plant Manager

ATTACHMENT 1 November 2006

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

<u>Date</u>	TRC (ug/ml)
10	164 <50
28	<50
]	

UOTCR 07-0016

March 14, 2007

Steven S. Weiss Mail Code 602



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.

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

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)	Boron (mg/1)	рН
2	7	.083	10	25	8.84
8	6	.094	10	14	6.25
13	7	.092	25	24	8.68
16	6	.093	4	44	8.57
18	7	.095	5	21	8.7
20	6	.094	5	41	8.42
21	7	.093	2	23	7.16
23	6	.094	4	15	8.7
	 				
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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/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 America 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)
2	30	<10	4
. <u>.</u>	 		ļ
OMMEN	TTS:	<u> </u>	

PERMI	T N	O. MO	-0098001			
REPOR	TIN	G PE	RIOD (MO/	YR)	02/07	
DACE	•	OF	A			

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/1)	TDS (mg/l)
5	50	1824
12	64	2076
19	74	2016
26	63	1352

DATE	Sulfate (mg/1)	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.

COM	MENTS:	No pH excursions occurred this month.
		•

REPO	AIT NO. N ORTING P	ERIOD		t)	02/07					
PAGI	E3 O	F_4_			NPDE	S MONIT	ORING REPORT			
				· · · · · · · · · · · · · · · · · · ·	W	ATER TREA	ALL 003 TMENT PLANT CHARGE			
		<u>OI</u>	TFALL 0	97				SANTT	ARY WASTE	
		FLOW	TSS	BOD		ρΉ	PARAMETER	T	L	IMITS (mg/1)
DA		MGD)	(mg/1)	(mg/1)	 -			FREQ.	MO. AVG.	WKLY. AV
. 8		.003	2	0	8	.56	FLOW	QRTLY (1)	N.A.	N.A.
							TSS	QRTLY (1)	70	110
					1,	i	BOD	QRTLY(1)	45	65
		1					рН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
						OUTF	(1) SAMPLES SI FEBRUARY ALL 009	IALL BE TAKE , MAY, AUGUS		
		OI PPE	4 T C 010	ALE	INI		ER BLOWDOWN CHARGE	CEODA WAT	ED DYDJOEE I	ONTE
		OULE	<u>ALLS 010</u>	- 012				STORM WAT		
		FLOW		0 and	COD		PARAMETER	FREQ.		MITS
DATE	OUTFALL	(MGD)	(mg/1)		(mg/l)	pΗ			MO. AVG.	DAILY MAX.
			+	(mg/1)	+		FLOW	QRTLY. (I)	N.A.	N.A.
_6	11 .	.154	23		20	7.72	TSS COD	QRTLY (1) QRTLY (1)	N.A.	N.A. N.A.
6	12	.012	4	2	22	9.01	O and G	QRTLY (1)	15	20
28	13	.014	37	3	27	9.08	pH	QRTLY(1)	>6.0	>6.0
28	14	.055	119	3	22	8.32		QRIDIO	-0.0	- 0.0
6	15	.022	9 TFALL 0	1	20	8.20		SHALL BE TAK ARY, MAY, AU COOLING		ABER.
	F	LOW	TSS	O and G	pН	TRC	PARAMETER	FREQ	L	MITS
DAT			(mg/1)	(mg/1)		(ug/l)			MO. AVG.	DAILY MAX.
5		3.7	15	7	8.21	<50	FLOW	QRTLY (1)	N.A.	N.A.
							TSS	QRTLY (1)	30	100
	L						O and G	QRTLY (1)	15	20
							pН	QRTLY (1)	6.0 - 9.0	6.0 - 9.0
							TRC	QRTLY(1)	N.A.	190
	·	<u>ou</u>	TFALL 0	<u>17</u>			(1) SAMPLES S FEBRUARY	HALL BE TAK , MAY, AUGUS		
ULTIMA No Disch	ATE HEAT S narge	INK					COMMENTS:			
OPERAT		RATORY		UE Callaway ETHODS SPI		•				

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."

Preparer

Reviewe

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.

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_

NPDES MONITORING REPORT

OUTFALL 001 RADWASTE SYSTEM

DATE	SOURCE	FLOW (MGD)	TSS (mg/1)(*1)	Boron (mg/l)	рН
2	7	.092	28	216	7.08
7	6	.092	19	69	6.97
10	7	.091	21	62	6.03
11	6	.090	7	8	6.84
12	7	.093	8	8	7.74
14	6	.092	16	201	6.34
16	7	.093	5	300	6.22
17 .	6	.091	12	184	7.32
19	7	.091	10	218	7.66
22	- 6	.091	18	94	8.04
28	6	.093	40 (*1)	3	8.13
29	7	.092	10	20	6.28
30	. 6	.090	12.	2	8.56
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PARAMETER	FREQ.	LIMI	TS	
		MONTHLY AVERAGE	DAILY MAX.	
FLOW (MGD)	ЕВ	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

Date	BOD (mg/l)	TRC (ug/l)	O&G (mg/l)
2	7	.10	4

COMMENTS:		
(*1) Monthly	average for TSS was	15.8 mg/L

PERMI	T N	O. MC)-0098001		
REPOR	TIN	G PE	RIOD (MO/YR)	05/2007	
PAGE	2	OF	5		

NPDES MONITORING REPORT

OUTFALL 002 COOLING TOWER BLOWDOWN

			-
DATE	FLOW (MGD)	TEMP (MAX 9F	TRC (ug/l)
ı	(*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	80	65
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	88	<50
30	7.2	87	57
31	3.7	87	<50

DATE	TSS (mg/1)	TDS (mg/l)
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	PARAMETER FREQ. L		IMITS	
		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 oc	curred this i	month	
(*2) All samples	taken by dip sample fro	om C Circ V	Water Pump	Bay due to
no discharge.	·	•		

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

DATE	FLOW (MGD)	TSS (mg/l)	BOD (mg/l)	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	
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 002 INTAKE HEATER BLOWDOWN NO DISCHARGE

OUTFALLS 010 - 015

DATE	OUTFALL	FLOW (MGD)	TSS (mg/l)	0 and G (mg/I)	COD (mg/l)	рĦ
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

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.

OUTFALL 016

DATE	FLOW (MGD)	TSS (mg/l)	O and G (mg/l)	рН	TRC (ug/l)
17	2.27	. 8	7	7.7	<50

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.

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.

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UD	14	л	"

NPDES MONITORING REPORT

OUTFALL 003 WATER TREATMENT PLANT NO DISCHARGE

OUTFALL 007

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

SANITARY WASTE

PARAMETER		LIM	ITS (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/1)	0 and G (mg/1)	CO D (mg/ l)	pН
19	10	.042			30	
19	11	.192			39	
19	12	.015			42	
31	14	.069			25	

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	
рH	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/l)	O and G (mg/1)	pН	TRC (ug/l)

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	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

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REPORTING PERIOD (MO/YR) _	05/2007
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"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

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CA0320 01/11/05

ATTACHMENT 1

05/2007
05/2007

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

<u>Date</u>	IRC (ug/mi)	
8	<50	
29	<50 <50 <50	
31	<50	
	·	