



Entergy Operations, Inc.
River Bend Station
PO. Box 220
St. Francisville, LA 70775

November 21, 1996

U.S. Nuclear Regulatory Commission
Document Control Desk
Mail Stop P1-37
Washington, D.C. 20555

Subject: Nonroutine Reports
File No. G9.25.1.4

RBG-43,503

Enclosed are nonroutine reports sent to other agencies, pursuant to Appendix B
(Environmental Protection Plan) to River Bend Station License Number NPF-47.

If there are any questions, please contact me at (504) 381-4389.

Sincerely,

Pamela W. Chapman

Pamela W. Chapman
Coordinator-Environmental

enclosure

cc: U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

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Entergy Operations, Inc.
River Bend Station
PO Box 220
St. Francisville, LA 70775

January 22, 1996

Mr. Gary Aydel
Administrator
Water Pollution Control Division
Louisiana Department of Environmental Quality
P.O. Box 82215
Baton Rouge, LA 70884-2215

Subject: Monitoring of Outfalls 002 and 003
Reference: Permit No. LWDPS WP0409
File No.: G10.11.3

RBG - 42,374

Dear Mr. Aydel:

Per the January 9, 1996 telephone conversation with Mr. Percy Harris of your Permits Program Section, we are documenting our request to change the manner in which we monitor for compliance discharges at Outfalls 002 and 003.

Outfall 002 is low volume waste which is discharged to the Mississippi River via Outfall 001. Outfall 003 is non-radioactive floor drain and oil/water separator wastewaters discharged to Grants Bayou. Both consist of internal discharges.

Outfall 002 consists of five different internal discharges. Currently, permit compliance monitoring is accomplished by sampling each internal discharge once per week if there has been flow. Since our discharge permit requires monitoring only once per week, we feel that past permit interpretation of appropriate sample collection greatly exceeded our monitoring requirements. Evidence of this excess is available by reviewing the Frequency of Analysis column from past Discharge Monitoring Reports. For 1995, the frequency of analysis for Outfall 002 ranged from seven to twelve samples per month. The frequency of analysis for Outfall 003 ranged from six to thirteen samples per month.

Monitoring of Outfalls 002 and 003
January 22, 1996
RBG - 42,374
Page 2 of 2

Therefore, we would like to adhere to our discharge permit requirement by sampling these outfalls only once per week. We would like concurrence from your office on this issue. We will presume consent if no response to this request is received within thirty (30) days. If there are any questions or comments please contact me at (504) 381-4389.

Sincerely,

Pamela W. Chapman

Pamela W. Chapman
Coordinator-Environmental

cc: Ms. Jane Fontenot, Chief
Water Management Division
Permits Issuance Section (6W-PS)
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

NRC Resident Inspector
P.O. Box 1051
St. Francisville, LA 70775



Entergy Operations, Inc.
River Bend Station
PO Box 220
St. Francisville, LA 70775

February 29, 1996

Mr. Gary Aydel
Administrator
Water Pollution Control Division
Louisiana Department of Environmental Quality
P.O. Box 82215
Baton Rouge, LA 70884-2215

Subject: Request for Permit Reductions
Reference: Permit No. LWDPS WP0409
File No.: G10.11.3

RBG - 42,595

Dear Mr. Aydel:

As discussed and directed by Mr. Percy Harris and Mr. Ron Gray with your Permits Program Section during their February 23, 1996 site visit, we are requesting that the attached permit reductions be considered during your preparation of our draft permit.

If there are any questions or if additional information is needed, please contact me at (504) 381-4389.

Sincerely,

Pamela W. Chapman
Coordinator-Environmental

cc: Ms. Jane Fontenot, Chief
Water Management Division
Permits Issuance Section (6W-PS)
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue
Dallas, TX 75202-2733

NRC Resident Inspector
P.O. Box 1051
St. Francisville, LA 70775

Requested Permit Reductions

• Outfall 001

1. Change maximum temperature limit from 99 to 110 and replace average temperature limit of 97 with reporting only.

Justification: Temperature is measured prior to mixing with the Mississippi River as required by the Permit. Since this would be considered a conservative measurement, it is highly unlikely that raising the maximum temperature limit to 110 will affect water quality or aquatic biota due to the enormous dilution provided by the Mississippi River. In addition, the maximum limit of 110 is consistent with our Arkansas and Louisiana sister nuclear plants.

Since average temperature measurements in 1995 (see Attachment I) ranged from a minimum of 75 to a maximum of 90, and a maximum limit of 110 will remain in place, removing the average temperature limit of 97 and replacing with reporting only, will not affect the quality of water discharged or impact the environment.

2. Remove oil & grease monitoring requirement.

Justification: This requirement is self-imposed, unnecessary and has no limits associated with it. In addition, there exists a redundancy in monitoring since oil & grease is already monitored at Outfall 002, which combines with 001. Oil & grease results for 1995 (see Attachment I) ranged from a minimum of 0.3 mg/l to a maximum of 3.0 mg/l and have demonstrated no upward trends. Therefore, the monitoring of water quality will continue to be adequate.

3. Remove free available chlorine (pounds per day) requirement.

Justification: A dechlorinating agent (sodium bisulfite) is added to remove chlorine prior to final discharge at this outfall. In 1995, no detectable chlorine was measured (see Attachment I). Therefore, pounds per day was 0. Since limits are in place to restrict discharge time and chlorine concentrations, and the fact that the final discharge is dechlorinated, removing this requirement will not affect the monitoring of water quality.

Requested Permit Reductions

• Outfall 002

1. Change total suspended solids monitoring frequency from weekly to once per month.

Justification: Wastewater from this outfall is treated to remove solids prior to discharge. Results for 1995 ranged from a minimum of 0 mg/l to a maximum of 16.3 mg/l (see Attachment I). Since this wastewater is treated prior to discharge and results have demonstrated no upward trend, reducing monitoring frequency will not affect the monitoring of water quality.

2. Replace oil & grease monitoring requirement with total organic carbon.

Justification: Total organic carbon (TOC) analyses are less labor intensive and more conservative than oil & grease analyses. In addition, TOC analyses would be more representative of actual water quality. Therefore, the integrity of water quality would continue to be monitored.

3. Change oil & grease monitoring frequency from weekly to once per month.

Justification: Wastewater from this outfall is treated prior to discharge. As seen in Attachment I, oil & grease results for 1995 ranged from a minimum of 0.3 mg/l to a maximum of 9.2 mg/l and have demonstrated no upward trend. Although a request is being made to replace the oil & grease parameter with TOC, 1995 results have shown no problems with this outfall. Therefore, changing the monitoring frequency from weekly to once per month will not affect the monitoring of water quality.

4. Sample radioactive wastewater for compliance while the batch tank is being recirculated and prior to discharge.

Justification: This would allow verification of permit compliance prior to actual discharge and would allow reprocessing should permit parameters be exceeded during the monitoring process. For additional explanation, refer to letter (RBG-41,527) dated May 16, 1995 to Mr. Dale Givens shown in Attachment II.

Requested Permit Reductions

5. Monitor only one internal discharge from Outfall 002 once per month.

Justification: Sampling each internal outfall discharge was self imposed and exceeded monitoring requirements. In addition, wastewater from these internal outfalls receive treatment prior to discharge and is reflected by the 1995 analysis results shown in Attachment I. Therefore, the monitoring of water quality would continue to be met. For additional explanation, see letter (RBG-42,374) dated January 22, 1996 to Mr. Gary Aydel shown in Attachment II.

6. Route ion-exchange internal discharge to stormwater Outfall 006.

Justification: This internal discharge consists of concentrated well water and would allow ease of process operation with minimal affect on the environment. In addition, our sister nuclear plant in Mississippi, which is already discharging identical concentrated well water to a storm drain, has performed tests to ensure that no adverse impact to the environment would occur. Therefore, this activity would not affect the quality of water discharge or impact the environment. For additional explanation, refer to letter (RBG-41,527) dated May 16, 1995 to Mr. Dale Givens.

- **Outfalls 003, 005, 006, 007 and 009**

1. Combine Outfalls 003, 005, 006, 007 and 009 into one common outfall at Grants Bayou Bridge on Louisiana Highway 965.

Justification: Currently, Outfall 003 consists of well water with Outfalls 005, 006, 007 and 009 consisting of stormwater. In addition, by combining these outfalls into one common outfall, excessive sampling can be discontinued while still monitoring stormwater runoff from the site. Since the point at Grants Bayou Bridge is a sampling location that encompasses all these outfalls, the monitoring of water quality would continue to be met.

Requested Permit Reductions

2. Delete oil & grease monitoring requirements and measure for pH, total organic carbon and flow on a quarterly basis only.

Justification: TOC analyses are less labor intensive and more conservative than oil & grease analyses. In addition, TOC analyses would be more representative of actual water quality. As seen below and shown in Attachment I, oil & grease results for 1995 have demonstrated no upward trend. Although a request is being made to replace the oil & grease parameter with TOC, 1995 results have shown no problems with this outfall. Therefore, the integrity of water quality would continue to be met. For additional explanation, refer to letter (RBG-40,401) dated March 22, 1994 to Mr. Dale Givens shown in Attachment II.

Outfall	Oil & Grease Results (mg/l)	
	Min.	Max.
003	0.9	10.0
005	NA	5.4
006	2.1	4.7
007	0.1	3.9
009	NA	2.5

3. Change monitoring frequency for pH, total organic carbon and flow to a quarterly basis.

Justification: As seen below and shown in Attachment I, industrial activities occurring at the site are not affecting the quality of stormwater runoff. In addition due to housekeeping practices that are incorporated into our daily plant operations, it is unlikely that site runoff will impact water quality or the environment. Therefore decreasing monitoring frequencies will not affect the quality of water discharged.

Outfall	pH		TSS		O & G		TOC	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
003	6.33	7.91	0.5	14.6	0.9	10.0	NA	NA
005	6.11	8.97	NA	NA	NA	5.4	NA	11.1
006	6.96	8.54	NA	NA	2.1	4.7	4.4	16.9
007	7.20	8.96	NA	NA	0.1	3.9	4.2	13.9
009	6.81	8.62	NA	NA	NA	2.5	NA	13.8

Requested Permit Reductions

3. Include condensate discharge from backup diesel air compressors as an internal discharge of this combined outfall.

Justification: This has already been approved by your department for discharge to stormwater Outfall 006 and will continue to be monitored as part of the combined outfall. Therefore, the monitoring of water would continue to be met. For additional explanation, refer to the Department of Environmental Quality letter (Reference Number WP0409) dated August 10, 1995 to Mr. Keith Stoma shown in Attachment II.

- **Outfall 004**

1. Reduce monitoring frequency for BOD, pH and TSS from weekly to monthly.

Justification: As seen below and shown in Attachment I, results are consistently below permit limits and are demonstrating no upward trends. Therefore, reducing the monitoring frequency will not affect the quality of water discharged.

Parameter	Results (mg/l)	Results (mg/l)
	Min.	Max.
BOD	0.58	6.40
pH	6.59	7.54
TSS	0	13.0

- **Outfall 102**

1. Eliminate Outfall 102.

Justification: As seen in Attachment I, no discharges occurred at this outfall during 1995 and none are anticipated in the near future. Based on this outfall being inactive the majority of time, approval to discharge could be obtained from the state on an as-needed basis.

ATTACHMENT I

River Bend Station

NPDES Data Summary

Monitoring Period: January - December 1995

TOTAL ANALYSES

FOR NPDES OUTFALLS

Outfall	Oil & Grease	pH	Total Suspended Solids	Total Organic Carbon	Free Available Chlorine	Total Zinc	Biological Oxygen Demand	Fecal Coliform	Total Outfall Analyses
001	53	53	0	0	55	53	0	0	214
002	105	0	105	0	0	0	0	0	210
003	117	117	117	0	0	0	0	0	351
004	0	45	45	0	0	0	44	4	138
005	36	36	0	36	0	0	0	0	108
006	48	48	0	48	0	0	0	0	144
007	40	40	0	40	0	0	0	0	120
008	12	12	12	0	0	0	0	0	36
009	32	32	0	32	0	0	0	0	96
102	0	0	0	0	0	0	0	0	0
Total	443	383	279	156	55	53	44	4	1,417

RIVER BEND STATION OUTFALL 001

(COOLING TOWER BLOWDOWN)

Page 1 of 2

Month/ Year	Temperature - (Flow Weighted) (°F)		pH (s.u.)		Oil & Grease* (mg/l)		Flow (mgd)	
	Avg.	Max.	Min.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	97	99	6.0	9.0	Report	Report	8.1**	Report
Jan '95	76	84	7.42	7.95	1.3	2.7	3.205	3.774
Feb '95	76	83	7.48	7.96	0.7	0.9	2.873	3.910
Mar '95	79	87	7.18	8.24	0.5	0.9	1.180	3.686
Apr '95	84	90	7.31	8.28	1.0	1.7	2.223	3.880
May '95	89	92	7.39	7.92	0.3	0.4	3.076	3.837
Jun '95	90	93	7.70	7.96	1.1	2.5	3.499	4.432
Jul '95	90	93	7.89	8.31	1.4	2.0	3.969	4.396
Aug '95	88	90	7.49	8.28	1.6	3.0	3.533	4.540
Sep '95	86	89	7.52	8.38	0.4	1.2	3.352	5.923
Oct '95	81	86	7.53	8.04	1.0	1.5	4.455	4.464
Nov '95	77	85	7.33	7.67	1.5	2.0	4.264	4.949
Dec '95	75	86	7.31	7.97	1.2	1.9	4.058	4.456
MIN. VALUE	75		7.18		0.3		1.180	
MAX. VALUE	90	93		8.38	1.6	3.0	4.455	5.923

* State imposed only

** EPA imposed limit only

RIVER BEND STATION OUTFALL 001

(COOLING TOWER BLOWDOWN)

Page 2 of 2

Month/ Year	Free Available Chlorine (lbs/day)		Free Available Chlorine (mg/l)		Total Zinc (mg/l)	
	Avg.	Max.	Avg.	Max.	Avg.*	Max.
NPDES Limit	1.1	3.2	0.2	0.5	1.0	1.0
Jan '95	0	0	0	0	0.202	0.230
Feb '95	0	0	0	0	0.143	0.163
Mar '95	0	0	0	0	0.113	0.139
Apr '95	0	0	0	0	0.149	0.190
May '95	0	0	0	0	0.388	0.475
Jun '95	0	0	0	0	0.236	0.411
Jul '95	0	0	0	0	0.173	0.194
Aug '95	0	0	0	0	0.206	0.252
Sep '95	0	0	0	0	0.263	0.294
Oct '95	0	0	0	0	0.251	0.285
Nov '95	0	0	0	0	0.227	0.334
Dec '95	0	0	0	0	0.177	0.301
MIN. VALUE	0		0		0.113	
MAX. VALUE	0	0	0	0	0.388	0.475

* EPA imposed only

RIVER BEND STATION OUTFALL 002

(LOW VOLUME WASTE)

Month/ Year	Total Suspended Solids (mg/l)		Oil & Grease (mg/l)		Flow (mgd)	
	Avg.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	<u>30</u>	<u>100</u>	<u>15</u>	<u>20</u>	<u>Report</u>	<u>Report</u>
Jan '95	0	0	1.9	5.8	0.024	0.076
Feb '95	0.1	1.0	1.1	9.2	0.040	0.204
Mar '95	0.064	0.400	1.0	2.2	0.026	0.106
Apr '95	0.9	1.4	0.3	2.0	0.046	0.283
May '95	1.4	8.0	1.5	2.4	0.043	0.093
Jun '95	1.3	6.6	0.6	2.1	0.033	0.077
Jul '95	2.1	16.3	1.6	2.8	0.036	0.092
Aug '95	0.4	2.4	1.1	2.8	0.044	0.076
Sep '95	0.3	1.0	1.0	2.7	0.027	0.057
Oct '95	1.8	4.8	1.0	3.1	0.047	0.146
Nov '95	0.4	3.4	1.2	3.5	0.032	0.068
Dec '95	0.6	2.4	1.4	3.1	0.032	0.089
MIN. VALUE	0		0.3		0.024	
MAX. VALUE	2.1	16.3	1.9	9.2	0.047	0.283

RIVER BEND STATION OUTFALL 003

(LOW VOLUME WASTE)

Month/ Year	pH (s.u.)		Total Suspended Solids (mg/l)		Oil & Grease (mg/l)		Flow (mgd)	
	Min.	Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	<u>6.0</u>	<u>9.0</u>	<u>30</u>	<u>100</u>	<u>15</u>	<u>20</u>	<u>Report</u>	<u>Report</u>
Jan '95	6.63	7.20	0.5	1.2	2.2	10.0	0.003	0.048
Feb '95	6.51	7.11	4.5	5.0	1.5	2.6	0.002	0.023
Mar '95	6.47	6.95	1.0	3.4	0.9	3.4	0.005	0.066
Apr '95	6.58	7.03	2.9	6.2	2.1	4.4	0.004	0.049
May '95	6.69	6.98	3.7	5.9	2.0	3.8	0.003	0.033
Jun '95	6.44	7.30	1.0	2.8	1.9	3.6	0.001	0.012
Jul '95	6.64	7.31	11.3	14.6	1.9	5.0	0.002	0.021
Aug '95	6.82	7.48	4.2	13.0	2.0	5.5	0.002	0.013
Sep '95	6.59	7.18	6.1	8.0	2.1	3.0	0.0003	0.006
Oct '95	6.61	7.91	8.4	9.0	1.9	5.3	0.001	0.020
Nov '95	6.33	7.22	3.4	5.4	2.0	4.2	0.002	0.018
Dec '95	6.34	7.30	1.8	3.4	1.7	5.1	0.003	0.037
MIN. VALUE	6.33		0.5		0.9		0.0003	
MAX. VALUE		7.91	11.3	14.6	2.2	10.0	0.005	0.066

RIVER BEND STATION OUTFALL 004

(SANITARY SEWAGE)

Month/ Year	BOD, 5-Day (mg/l)		pH (s.u.)		Total Suspended Solids (mg/l)		Flow (mgd)		Fecal Coliform** (CFS/100 ml)	
	Avg.	Max.	Min.	Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	<u>30</u>	<u>45</u>	<u>6.0</u>	<u>9.0</u>	<u>30</u>	<u>45</u>	<u>0.05*</u>	<u>Rprt</u>	<u>200</u>	<u>400</u>
Jan '95	0.88	1.27	6.59	7.17	0	0	0.015	0.024	***	***
Feb '95	2.76	4.26	6.98	7.27	2.8	4.2	0.015	0.021	0	0
Mar '95	3.04	5.22	7.05	7.38	2.9	3.2	0.014	0.021	***	***
Apr '95	0.95	2.035	6.75	7.22	2.5	6.8	0.015	0.022	0	0
May '95	0.59	1.37	6.89	7.38	1.0	3.8	0.014	0.022	***	***
Jun '95	1.18	2.06	6.80	7.42	0	0	0.012	0.024	***	***
Jul '95	0.58	0.98	6.77	7.37	0.8	2.0	0.012	0.018	0	0
Aug '95	1.77	2.66	7.05	7.54	2.1	5.0	0.013	0.021	***	***
Sep '95	1.99	1.99	7.23	7.23	4.0	4.0	0.003	0.017	***	***
Oct '95	****	****	****	****	****	****	****	****	****	****
Nov '95	3.36	6.40	7.18	7.54	6.5	13.0	0.011	0.055	***	***
Dec '95	1.31	3.00	7.08	7.38	2.9	3.8	0.031	0.214	0	0
MIN. VALUE	0.58		6.59		0		0.003		0	
MAX. VALUE	3.36	6.40		7.54	6.5	13.0	0.031	0.214	0	0

* EPA imposed limit only

** State imposed only

*** Quarterly frequency only

**** No discharge due to start-up of new wastewater facility.

RIVER BEND STATION OUTFALL 005

(STORMWATER)

Month/ Year	pH (s.u.)		Oil & Grease (mg/l)	Total Organic Carbon (mg/i)	Flow (mgd)	
	Min.	Max.	Max.	Max.	Avg.	Max.
NPDES Limit	<u>6.0</u>	<u>9.0</u>	<u>15</u>	<u>50</u>	<u>Report</u>	<u>Report</u>
Jan '95	8.00	8.21	1.4	5.8	0.019	0.323
Feb '95	7.78	8.39	0.6	5.1	0.011	0.148
Mar '95	7.63	8.40	0.2	6.8	0.031	0.439
Apr '95	7.77	8.97	1.0	5.7	0.027	0.325
May '95	7.63	8.38	2.5	4.8	0.022	0.221
Jun '95	6.11	7.59	4.1	6.3	0.010	0.080
Jul '95	7.38	7.84	1.4	6.8	0.014	0.140
Aug '95	7.50	8.28	2.8	11.1	0.011	0.085
Sep '95	*	*	*	*	0.002	0.043
Oct '95	7.30	7.98	3.6	8.9	0.009	0.136
Nov '95	7.77	7.92	2.3	8.7	0.014	0.123
Dec '95	7.73	8.37	5.4	6.5	0.019	0.247
MIN. VALUE	6.11				0.002	
MAX. VALUE		8.97	5.4	11.1	0.031	0.439

* No samples due to low rainfall.

RIVER BEND STATION OUTFALL 006

(STORMWATER)

Month/ Year	pH (s.u.)		Oil & Grease (mg/l)		Total Organic Carbon (mg/l)		Flow (mgd)	
	Min.	Max.	Avg.*	Max.	Avg.*	Max.	Avg.	Max.
NPDES Limit	6.0	9.0	Report	15**	Report	50**	Report	Report
Jan '95	7.91	8.52	1.6	2.2	5.3	9.8	0.232	5.568
Feb '95	7.78	8.22	0.004	1.5	5.6	5.6	0.141	2.191
Mar '95	7.37	8.54	0.7	1.4	5.8	16.9	0.410	7.590
Apr '95	7.13	8.10	0.05	1.7	4.8	5.7	0.396	5.604
May '95	6.96	7.89	0.03	1.2	5.3	11.4	0.269	3.784
Jun '95	7.40	8.32	2.1	2.6	6.4	10.0	0.059	0.655
Jul '95	7.74	7.92	1.5	2.1	4.4	9.3	0.134	1.957
Aug '95	7.56	8.11	0.7	2.8	9.4	9.6	0.053	0.734
Sep '95	7.35	7.35	0.8	0.8	11.2	11.2	0.007	0.190
Oct '95	7.40	8.10	0.5	4.7	4.8	13.8	0.076	1.863
Nov '95	7.79	8.05	0.9	2.2	6.9	14.7	0.096	1.511
Dec '95	7.50	7.97	0.2	2.2	6.6	13.6	0.232	4.248
MIN. VALUE	6.96		0.004		4.4		0.007	
MAX. VALUE		8.54	2.1	4.7	11.2	16.9	0.410	7.590

* State imposed only

** EPA imposed limit only

RIVER BEND STATION OUTFALL 007

(STORMWATER)

Month/ Year	pH (s.u.)		Oil & Grease (mg/l)		Total Organic Carbon (mg/l)		Flow (mgd)	
	Min.	Max.	Avg.*	Max.	Avg.*	Max.	Avg.	Max.
NPDES Limit	6.0	9.0	Report	15**	Report	50**	Report	Report
Jan '95	7.92	8.25	1.4	2.1	7.0	13.1	0.250	5.960
Feb '95	7.70	8.61	0.1	1.9	8.3	8.9	0.153	2.327
Mar '95	7.61	8.47	1.0	2.6	7.9	9.1	0.440	8.128
Apr '95	7.55	8.81	0.4	1.1	8.6	11.6	0.426	5.999
May '95	7.75	7.92	0.47	0.53	8.1	10.3	0.296	4.048
Jun '95	8.01	8.21	0.9	1.3	9.6	10.3	0.058	0.664
Jul '95	7.66	8.96	1.4	1.5	12.5	13.9	0.140	2.071
Aug '95	7.90	8.09	0.8	3.9	8.7	9.8	0.054	0.749
Sep '95	7.40	7.40	1.2	1.2	8.4	8.4	0.006	0.187
Oct '95	7.20	8.27	1.5	1.6	4.2	10.4	0.080	1.970
Nov '95	7.99	8.42	0.2	2.9	9.2	13.1	0.098	1.587
Dec '95	7.80	8.81	0.1	2.2	8.1	10.6	0.243	4.545
MIN. VALUE	7.20		0.1		4.2		0.006	
MAX. VALUE		8.96	1.5	3.9	12.5	13.9	0.440	8.128

* State imposed only

** EPA imposed limit only

RIVER BEND STATION OUTFALL 008

(LOW VOLUME WASTES)

Month/ Year	pH (s.u.)		Total Suspended Solids (mg/l)		Oil & Grease (mg/l)		Flow (mgd)	
	Min.	Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	6.0	9.0	30	100	15	20	Report	Report
Jan '95	*	*	*	*	*	*	*	*
Feb '95	7.84	7.97	0	0	0.9	2.0	0.0004	0.0038
Mar '95	*	*	*	*	*	*	*	*
Apr '95	*	*	*	*	*	*	*	*
May '95	7.10	7.10	0.6	0.6	0.2	0.2	0.005	0.005
Jun '95	6.65	6.65	1.4	1.4	0.42	0.42	0.001	0.030
Jul '95	*	*	*	*	*	*	*	*
Aug '95	8.68	8.75	1.9	4.2	1.3	1.5	0.0001	0.0011
Sep '95	7.26	7.26	9.8	9.8	0.5	0.5	0.0001	0.0001
Oct '95	6.55	7.12	2.4	5.4	5.1	5.2	0.001	0.045
Nov '95	7.60	7.60	0.5	0.5	1.8	1.8	0.003	0.090
Dec '95	*	*	*	*	*	*	*	*
MIN. VALUE	6.55		0		0.2		0.0001	
MAX. VALUE		8.75	9.8	9.8	5.1	5.2	0.005	0.090

* No discharge

RIVER BEND STATION OUTFALL 009 *

(STORMWATER)

Month/ Year	pH (s.u.)		Oil & Grease (mg/l)	Total Organic Carbon (mg/l)	Flow (mgd)	
	Min.	Max.	Max.	Max.	Avg.	Max.
NPDES Limit	6.0	9.0	15	50	Report	Report
Jan '95	7.98	8.20	1.7	9.0	0.045	1.019
Feb '95	7.86	8.62	1.9	5.6	0.017	0.215
Mar '95	7.58	8.31	1.4	11.5	0.078	1.604
Apr '95	7.89	8.21	0.2	4.9	0.062	1.029
May '95	7.29	7.83	1.6	6.71	0.039	0.503
Jun '95	7.52	7.69	0.9	13.8	0.014	0.117
Jul '95	7.54	7.97	2.1	10.0	0.020	0.203
Aug '95	7.60	7.92	2.5	9.7	0.016	0.124
Sep '95	**	**	**	**	0.002	0.063
Oct '95	6.81	7.91	2.2	12.4	0.012	0.198
Nov '95	7.43	7.82	1.7	5.1	0.020	0.179
Dec '95	7.56	8.20	1.4	11.0	0.036	0.637
MIN. VALUE	6.81				0.002	
MAX. VALUE		8.62	2.5	13.8	0.078	1.604

* EPA imposed only

** No samples due to low rainfall

RIVER BEND STATION OUTFALL 102
(CHEMICAL METAL CLEANING WATER)

Month/ Year	Total Iron (mg/l)		Total Copper (mg/l)		Flow (mgd)	
	Avg.	Max.	Avg.	Max.	Avg.	Max.
NPDES Limit	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>	<u>Report</u>	<u>Report</u>
Jan '95	*	*	*	*	*	*
Feb '95	*	*	*	*	*	*
Mar '95	*	*	*	*	*	*
Apr '95	*	*	*	*	*	*
May '95	*	*	*	*	*	*
Jun '95	*	*	*	*	*	*
Jul '95	*	*	*	*	*	*
Aug '95	*	*	*	*	*	*
Sep '95	*	*	*	*	*	*
Oct '95	*	*	*	*	*	*
Nov '95	*	*	*	*	*	*
Dec '95	*	*	*	*	*	*
MIN. VALUE	*		*		*	
MAX. VALUE	*	*	*	*	*	*

* No discharge

ATTACHMENT II

Referenced Letters



ENTERGY

Entergy Operations, Inc.
River Bend Station
PO. Box 220
St. Francisville, LA 70775

May 1, 1996

Ms. Linda Levy
Assistant Secretary
Office of Water Resources
Louisiana Department of Environmental Quality
P.O. Box 82215
Baton Rouge, LA 70884-2215

Subject: Station Sewage System Excursion
Reference: Permit No. LWDPS WP0409
File No.: G1.11.2

RBG - 42,878

Dear Ms. Levy:

This letter is a written follow-up for a prompt notification of a sewage system excursion which occurred on April 23, 1996.

A fecal coliform sample was obtained from the sewage system effluent on April 23 at 11:00 a.m.. The sample was analyzed in duplicate and the averaged result, obtained on April 24 at 2:00 p.m., was 493 fecal colonies per 100 milliliters. The station permit fecal coliform limits for Outfall 004, Sewage Treatment Plant, are 200 and 400 colonies per 100 milliliters, for daily average and daily maximum, respectively.

In 1995, a new sewage treatment lagoon system was constructed for River Bend Station. The system was put into operation in September of 1995, yet there was no effluent discharge until November, 1995. Our investigation indicates that the probable cause for the permit excursion was due to a high volume rainfall event, exceeding the capacity of the ultraviolet (UV) light disinfection system. A large rainfall event occurred on April 22, which increased the water level in the lagoon

Station Sewage System Excursion

May 1, 1996

RBG - 42,878

Page 2 of 2

system and caused a temporary high effluent discharge rate which continued through April 23, 1996.

Our corrective measures included resampling the sewage effluent discharge on April 24, 1996, for another fecal coliform analysis. The sewage effluent result obtained on April 25, 1996, was 0 fecal colonies per 100 milliliters, which indicates effectiveness of the bacteriological treatment system. In accordance with our permit, we will increase our sampling frequency for this parameter. All analysis results will be reported with our monthly Discharge Monitoring Reports for April and May, 1996. In order to prevent recurrence, we plan to maintain appropriate effluent flow rates through the UV light system by manual operation of valves during high discharge flow periods. Also, since the new sewage lagoon system remains in the start-up phase, we are reengineering the system to incorporate a UV light system capable of treating our maximum system discharge flow rate.

I certify under penalty of law that this document and all attachments were prepared under the 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.

Sincerely,

Pamela W. Chapman

Pamela W. Chapman
Coordinator-Environmental

PWC/pc

June 20, 1996

Ms. Linda Levy
Assistant Secretary
Office of Water Resources
Louisiana Department of Environmental Quality
P.O. Box 82215
Baton Rouge, LA 70884-2215

Subject: Permitted Outfall 006 pH Excursion
Reference: Permit No. LWDPS WP0409
File No.: G1.11.2

RBG - 43,037

Dear Ms. Levy:

This letter is a written follow-up for a prompt notification of a pH excursion at Outfall 006, stormwater runoff from the east side of the plant and previously monitored internal discharges, which occurred at River Bend Station on June 14, 1996. Outfall 006 discharges to Grants Bayou, Thompson's Creek and the Mississippi River.

Outfall 006 stormwater discharge monitoring was performed on June 14, 1996 at 0928 hours. The pH analysis result obtained was 10.32 SU. Resampling of the pH at the outfall was performed at 0948 hours. The pH analysis result obtained was 10.43 SU.

Immediate investigation identified that construction activity on a new parking lot area was the cause of the pH excursion. The construction crew disked Portland Cement into the soil to form a hard base prior to pouring asphalt. During the application of the cement, a large rainfall event occurred. The cement caused the rise in pH at Outfall 006.

Additional pH samples were obtained from Outfall 006 on June 15, 1996 at 0840 and 2008 hours, with results of 7.51 SU and 8.53 SU.

Permitted Outfall 006 pH Excursion

June 20, 1996

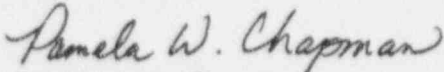
RBG - 43,037

Page 2 of 2

Actions taken to prevent recurrence included meeting with contractors to stress environmental standards and expectations including proactive response in regard to future construction work and its effect on discharge permit compliance.

I certify under penalty of law that this document and all attachments were prepared under the 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.

Sincerely,



Pamela W. Chapman

Coordinator-Environmental

cc: Capitol Area Regional Office
Water Pollution Control Division
11720 Airline Highway
Baton Rouge, LA 70817-1720

NRC Resident Inspector
P.O. Box 1051
St. Francisville, LA 70775