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October 24, 2001

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Subject: Corrected Pages for the Radiological Environmental Operating Report for 2000
River Bend Station
License No. NPF-47
Docket No. 50-458

Reference: RBG-45717, dated April 24, 2001

File Nos.: G9.5, G9.25.1.5, G10.6

RBG-45859
RBF1-01-0237

Ladies and Gentlemen:

Attached are six corrected pages for the 2000 River Bend Station (RBS) Annual Radiological Environmental Operating Report that was issued to the NRC on April 24, 2001, per RBG-45717. The six pages contain minor changes and are replacements for pages 17, 23, 29, 30, 33, and 34 of the previously issued report.

Should you have any questions regarding the enclosed information, please contact Mr. Bill Fountain of my staff at (225) 381-4625.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick J. King".

RJK/WJF
attachments

Cool

Corrected Pages for Radiological Environmental Operating Report for 2000
October 24, 2001
RBG-45859
RBF1-00-0237
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cc: U.S. Nuclear Regulatory Commission
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<u>Radionuclide</u>	<u>2000</u>	<u>1995 - 1999</u>	<u>Preoperational</u>
Gammas	<LLD	<LLD	<LLD
Tritium	367.0	213.7	<LLD

Groundwater samples were collected from two locations (indicator and control) and analyzed for gamma radionuclides and tritium. Gamma radionuclides were below detectable limits at the indicator and control locations, with tritium detected at background levels at both locations. Listed below is a comparison of 2000 results from the indicator location as compared to the preoperational and operational years. Results are reported as annual average pCi/l.

<u>Radionuclide</u>	<u>2000</u>	<u>1995 - 1999</u>	<u>Preoperational</u>
Gammas	<LLD	<LLD	<LLD
Tritium	290.0	<LLD	<LLD

Based on these comparisons, the operation of RBS had no impact on this pathway during 2000, and levels of radionuclides monitored for this pathway continue to remain similar to those obtained in operational and preoperational years.

RBS personnel also collected special effluent wastewater samples from the sewage treatment plant during 2000 to supplement the REMP. RBS did not detect any gamma radionuclides in these samples.

2.4 Sediment Sample Results

Sediment samples were collected from the indicator location in 2000 and analyzed for gamma radionuclides. In 2000, gamma radionuclides were below detectable limits, which is consistent with the preoperational and operational monitoring periods. Therefore, based on these measurements, RBS operations had no significant radiological impact upon the environment or public by this pathway.

RBS personnel also collected special sediment samples from East Creek and West Creek during 2000 to supplement the REMP. RBS did not detect any gamma radionuclides in these samples.

2.5 Milk Sample Results

Milk samples were not collected during 2000 due to the unavailability of indicator locations within 5 miles (8 km) of RBS. Since there are no dairies within five miles of the RBS site, it is concluded RBS's operation had no impact on this pathway in 2000.

TABLE 3.1

Radiological Environmental Monitoring Program SummaryName of Facility: River Bend Station Docket No: 50-458Location of Facility: West Feliciana Parish, Louisiana Reporting Period: January - December 2000

Sample Type (Units)	Type & Number of Analyses ^a	LLD ^b	Indicator Location Mean (F) ^c [Range]	Location with Highest Annual Mean		Control Locations Mean (F) ^c [Range]	Number of Nonroutine Results ^e
				Location ^d	Mean (F) ^c [Range]		
Surface Water (pCi/l)	H-3 8	3000	367.0 (1 / 4) [N/A]	SWD (7.75 km S)	367.0 (1 / 4) [N/A]	279.0 (2 / 4) [245 – 313]	0
	GS 8						
	Mn-54	15	<LLD	N/A	N/A	<LLD	0
	Fe-59	30	<LLD	N/A	N/A	<LLD	0
	Co-58	15	<LLD	N/A	N/A	<LLD	0
	Co-60	15	<LLD	N/A	N/A	<LLD	0
	Zn-65	30	<LLD	N/A	N/A	<LLD	0
	Zr-95	30	<LLD	N/A	N/A	<LLD	0
	Nb-95	15	<LLD	N/A	N/A	<LLD	0
	I-131	15	<LLD	N/A	N/A	<LLD	0
	Cs-134	15	<LLD	N/A	N/A	<LLD	0
	Cs-137	18	<LLD	N/A	N/A	<LLD	0
	Ba-140	60	<LLD	N/A	N/A	<LLD	0
	La-140	15	<LLD	N/A	N/A	<LLD	0

Table 1.1

Sample Type: Air Particulate Filter

Analysis: Gross Beta

Units: pCi/m³

Start Date	End Date	AN1 (Indicator)	AP1 (Indicator)	AQS2 (Indicator)	AGC (Control)
<u>Required LLD</u> →		<u>0.01</u>	<u>0.01</u>	<u>0.01</u>	<u>0.01</u>
12/27/1999	01/10/2000	0.02	0.03	0.03	0.03
01/10/2000	01/24/2000	0.02	0.02	0.02	0.02
01/24/2000	02/07/2000	0.03	0.03	0.04	0.04
02/07/2000	02/21/2000	0.03	0.03	0.03	0.03
02/21/2000	03/06/2000	0.02	0.02	0.02	0.02
03/06/2000	03/21/2000	0.01	0.01	0.02	0.01
03/21/2000	04/04/2000	0.02	0.02	0.02	0.02
04/04/2000	04/18/2000	0.01	0.01	0.02	0.02
04/18/2000	05/01/2000	0.02	0.02	0.02	0.02
05/01/2000	05/15/2000	0.02	0.02	0.02	0.02
05/15/2000	05/30/2000	0.02	0.02	0.02	0.02
05/30/2000	06/13/2000	0.01	0.02	0.02	0.02
06/13/2000	06/27/2000	0.01	0.02	0.02	0.02
06/27/2000	07/12/2000	0.02	0.02	0.02	0.02
07/12/2000	07/25/2000	0.03	0.03	0.03	0.03
07/25/2000	08/07/2000	0.02	0.02	0.02	0.02
08/07/2000	08/21/2000	0.02	0.03	0.03	0.03
08/21/2000	09/05/2000	0.03	0.04	0.03	0.03
09/05/2000	09/18/2000	0.02	0.01	0.02	0.01
09/18/2000	10/03/2000	0.02	0.01	0.02	0.01
10/03/2000	10/17/2000	0.03	0.02	0.03	0.02
10/17/2000	10/31/2000	0.05	0.04	0.05	0.05
10/31/2000	11/14/2000	0.04	0.03	0.03	0.03
11/14/2000	11/27/2000	0.03	0.03	0.03	0.03
11/27/2000	12/12/2000	0.04	0.05	0.04	0.03
12/12/2000	12/27/2000	0.03	0.03	0.03	0.03

Table 1.2

Sample Type: Radioiodine CartridgeAnalysis: Iodine-131Units: pCi/m³

Start Date	End Date	AN1 (Indicator)	AP1 (Indicator)	AQS2 (Indicator)	AGC (Control)
<u>Required LLD</u> →		<u>0.07</u>	<u>0.07</u>	<u>0.07</u>	<u>0.07</u>
12/27/1999	01/10/2000	<0.01	<0.01	<0.01	<0.01
01/10/2000	01/24/2000	<0.01	<0.01	<0.01	<0.01
01/24/2000	02/07/2000	<0.01	<0.01	<0.01	<0.01
02/07/2000	02/21/2000	<0.01	<0.01	<0.01	<0.01
02/21/2000	03/06/2000	<0.01	<0.01	<0.01	<0.01
03/06/2000	03/21/2000	<0.01	<0.01	<0.01	<0.01
03/21/2000	04/04/2000	<0.01	<0.01	<0.01	<0.01
04/04/2000	04/18/2000	<0.01	<0.01	<0.01	<0.01
04/18/2000	05/01/2000	<0.01	<0.01	<0.01	<0.01
05/01/2000	05/15/2000	<0.01	<0.01	<0.01	<0.01
05/15/2000	05/30/2000	<0.01	<0.01	<0.01	<0.01
05/30/2000	06/13/2000	<0.01	<0.01	<0.01	<0.01
06/13/2000	06/27/2000	<0.01	<0.01	<0.01	<0.01
06/27/2000	07/12/2000	<0.01	<0.01	<0.01	<0.01
07/12/2000	07/25/2000	<0.01	<0.01	<0.01	<0.01
07/25/2000	08/07/2000	<0.01	<0.01	<0.01	<0.01
08/07/2000	08/21/2000	<0.01	<0.01	<0.01	<0.01
08/21/2000	09/05/2000	<0.01	<0.07	<0.01	<0.01
09/05/2000	09/18/2000	<0.01	<0.01	<0.01	<0.01
09/18/2000	10/03/2000	<0.01	<0.01	<0.01	<0.01
10/03/2000	10/17/2000	<0.01	<0.01	<0.01	<0.01
10/17/2000	10/31/2000	<0.01	<0.01	<0.01	<0.01
10/31/2000	11/14/2000	<0.01	<0.01	<0.01	<0.01
11/14/2000	11/27/2000	<0.00	<0.00	<0.00	<0.00
11/27/2000	12/12/2000	<0.01	<0.01	<0.01	<0.01
12/12/2000	12/27/2000	<0.01	<0.01	<0.01	<0.01

Table 3.1

Sample Type: **Surface Water**Analysis: **Gamma Isotopic and Tritium**Units: **pCi/l**

Location	Collection Date	H-3	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-95	Nb-95	I-131	Cs-134	Cs-137	Ba-140	La-140
Required LLD →		3000	15	30	15	15	30	30	15	15	15	18	60	15
SWD (Indicator)	02/14/2000	<537	<3.78	<2.89	<4.41	<2.97	<9.21	<8.23	<4.11	<4.26	<4.60	<4.91	<11.60	<3.19
SWU (Control)	02/14/2000	<535	<7.19	<11.30	<4.77	<5.19	<9.20	<8.78	<5.65	<5.97	<4.86	<5.79	<19.30	<4.20
SWD (Indicator)	05/16/2000	<526	<3.44	<6.01	<4.65	<3.25	<6.03	<6.56	<2.95	<3.65	<4.98	<4.92	<12.90	<3.26
SWU (Control)	05/16/2000	245	<4.49	<8.01	<4.30	<3.18	<8.26	<8.81	<4.55	<5.34	<4.90	<5.56	<14.70	<3.94
SWD (Indicator)	08/07/2000	<527	<4.27	<8.08	<5.31	<5.03	<9.92	<8.26	<6.48	<6.05	<4.32	<4.58	<17.90	<4.72
SWU (Control)	08/07/2000	<527	<2.63	<6.96	<3.85	<4.01	<7.30	<3.85	<4.17	<4.46	<4.27	<3.76	<15.90	<4.33
SWD (Indicator)	11/09/2000	367	<2.90	<7.58	<3.17	<5.14	<8.94	<4.44	<3.74	<4.38	<3.59	<3.58	<16.73	<2.72
SWU (Control)	11/09/2000	313	<3.97	<9.16	<4.67	<5.03	<9.92	<9.24	<3.45	<5.26	<5.50	<3.93	<19.21	<4.88

Table 4.1

Sample Type: **Groundwater**Analysis: **Gamma Isotopic and Tritium**Units: **pCi/l**

Location	Collection Date	H-3	Mn-54	Fe-59	Co-58	Co-60	Zn-65	Zr-95	Nb-95	I-131	Cs-134	Cs-137	Ba-140	La-140
Required LLD →		3000	15	30	15	15	30	30	15	15	15	18	60	15
WD (Indicator)	05/17/2000	255	<4.94	<10.90	<3.75	<4.15	<11.50	<7.94	<6.22	<4.52	<3.31	<5.30	<17.10	<4.63
WU (Control)	05/17/2000	<523	<5.86	<9.15	<5.46	<2.25	<9.52	<12.10	<6.82	<6.59	<6.32	<6.42	<21.30	<8.16
WD (Indicator)	11/21/2000	325	<5.54	<11.10	<7.12	<6.24	<4.41	<8.24	<6.75	<5.92	<5.65	<5.31	<15.90	<7.95
WU (Control)	11/21/2000	259	<6.63	<15.90	<7.60	<6.16	<16.10	<11.70	<10.20	<7.26	<6.94	<6.44	<27.20	<11.50