

ENCLOSURE 1

**PHOTOINTERPRETATION REPORT**  
(AERO-DATA CORPORATION 95-2288.01)

**A BRIEF AERIAL PHOTOGRAPHY ANALYSIS  
OF RIVER BEND STATION AT  
ST. FRANCISVILLE, LOUISIANA:  
1994-1995**

BY:

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Submitted to:

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## 1.0 Executive Summary

Aero-Data Corporation (ADC) has contracted with the Entergy River Bend Station to conduct a photo mission covering at least a two mile radius around the facility near St. Francisville, Louisiana. ADC has been providing annual plant site documentation of the facility since 1985.

This year ADC was requested to produce photographs of the facility, but not a photomosaic. The current photography was compared to the previous years photography in order to identify any changes in the number of wellheads and/or pipelines surrounding the site. Changes in vegetation within the facility boundary were also identified.

The deliverables for this project include contact prints of each frame (24), a color plot showing the 1994-1995 changes, a color plot containing the frame center for each of the photographs from the current flight, and this interpretation report.

### 1.1 Methods and Materials

The current photo mission was flown on October 6, 1995 at a scale of 1"=1,500' using false color infrared (CIR) film. The frame centers of the 1995 photographic coverage are very similar to those flown by ADC for Gulf States Utilities/Entergy in 1993 and 1994. The previous photo mission was flown on November 6, 1994 also at a scale of 1"=1,500' and using CIR film. ADC's flight planning was simplified with the use of a Geographic Information System (GIS) software package which aided in the alignment of the flight lines. Using this system, four flightlines were selected and 24 frames of film were shot for this photo mission. Navigation was by our GPS navigation and moving map equipment.

Contact prints for the current photomission were produced at a scale of 1"=1,500'. The prints for the current and 1994 dates were analyzed on a large mirror stereoscope for change detection. It should be noted that there is a slight difference in color balance between the prints of the 1995 photomission and the previous photomissions. The vegetation in the 1995 photography appears more purple than in the previous years photography. This change in color is due to the new state-of-the-art Zeiss RMK/TOP camera that ADC has recently acquired.

The change map of the River Bend facility was produced using a Geographic Information System. The GIS incorporated computer scanned imagery of the 1994 and 1995 photo missions as well as digitized vector data. Comparison of the current photography with the 1994 photography by photointerpretation revealed no new changes regarding pipelines or wellheads. Some ground vegetation removal was detected. However, this removal of vegetation appears to be a result of the construction activities located just north of the substation.

ADC also constructed a map showing the frame centers, frame numbers, and latitude/longitude coordinates of each frame. This map was created from 1990 TIGER digital line data acquired from the U.S. Department of Commerce, Bureau of the Census in CD-ROM format. The Tiger data is useful for reference purposes, supplementing the outdated U.S. Geological Survey 7.5 minute quadrangle map data available for the area of interest (the Port Hudson quad map was last updated in 1980; the St. Francisville quad in 1972). In terms of accuracy, the scale of TIGER data is 1:100,000 and may be anywhere from 50 to 140 feet off; whereas the 7.5 minute quads have a scale of 1:24,000 and may be up to 40 feet off.

Aero-Data can map the area from the current photography and produce a current map which will surpass the accuracy of USGS quadrangle sheets should it be requested. The above referenced map should be used to select the specific frames which provide coverage within the site area.

## **1.2 Summary of Preliminary Findings**

No changes in the number or size of wellheads, pipelines or transmission line right-of-ways were identified during the interpretive phase of this project. There are no significant changes in vegetation in the area immediately surrounding the cooling towers. The vegetation in the area surrounding the cooling towers has not changed significantly in the last 4 years. Some construction activities are visible to the north of the substation. This construction appears to be a sewage/water treatment facility. As a result of this construction, vegetation has been removed in this immediate area. Aside from this construction, the area surrounding the Entergy River Bend facility has not changed significantly since the 1994 photomission.


## Appendix A: Photo Inventory


Can	Roll	Start Frame	End Frame	Photo Date	Photo Scale	Film Type	Site Name	Aero-Data Project No.	Flight Line Qty. of Frames	Quad Name Location
009	009	1	5	2/13/88	15840	CIR	GSU Riverbend	103	5	Elm Park, Port Hudson
009	009	10	15	2/13/88	15840	CIR	GSU Riverbend	103	6	Elm Park, Port Hudson
009	009	19	23	2/13/88	15840	CIR	GSU Riverbend	103	5	Elm Park, Port Hudson
009	009	29	34	2/13/88	15840	CIR	GSU Riverbend	103	6	Elm Park, Port Hudson
008	008	73	79	3/10/88	15840	Color	GSU Riverbend	103	7	Elm Park, Port Hudson
Cut		A	G	10/29/90		Color	GSU Riverbend	0708		Elm Park, Port Hudson
357	91029	59	67	10/11/91	15840	CIR	GSU Riverbend	1079	9	Elm Park, Port Hudson
357	91040			11/10/91	15840	CIR	GSU Riverbend	103		Elm Park, Port Hudson
357	92043	2706	2716	9/30/92	18000	CIR	GSU Riverbend	1392	11	Elm Park, Port Hudson
357	92043	2720	2724	9/30/92	18000	CIR	GSU Riverbend	1392	5	Elm Park, Port Hudson
357	92043	2727	2735	9/30/92	18000	CIR	GSU Riverbend	1392	9	Elm Park, Port Hudson
357	92043	2746	2752	9/30/92	18000	CIR	GSU Riverbend	1392	7	Elm Park, Port Hudson
357	93041	4571	4578	9/30/93	18000	CIR	GSU Riverbend	1791	8	Elm Park, Port Hudson
357	93041	4579	4587	9/30/93	18000	CIR	GSU Riverbend	1791	9	Elm Park, Port Hudson
357	93041	4588	4595	9/30/93	18000	CIR	GSU Riverbend	1791	8	Elm Park, Port Hudson
357	93041	4596	4604	9/30/93	18000	CIR	GSU Riverbend	1791	9	Elm Park, Port Hudson
357	94034	1627	1632	11/6/94	18000	CIR	Riverbend, Entergy	2288	6	Elm Park, Port Hudson
357	94034	1633	1640	11/6/94	18000	CIR	Riverbend, Entergy	2288	6	Elm Park, Port Hudson
357	94034	1641	1648	11/6/94	18000	CIR	Riverbend, Entergy	2288	8	Elm Park, Port Hudson
357	94034	1649	1660	11/6/94	18000	CIR	Riverbend, Entergy	2288	12	Elm Park, Port Hudson
443	95037	0970	1004	10/6/95	18000	CIR	Riverbend, Entergy	2288.01	35	Elm Park, Port Hudson


# Entergy River-Bend Station 1995 Change Map


## Legend


ENTERGY Boundary (Approximate) - - - -


Existing Structures - 

New Structures - 

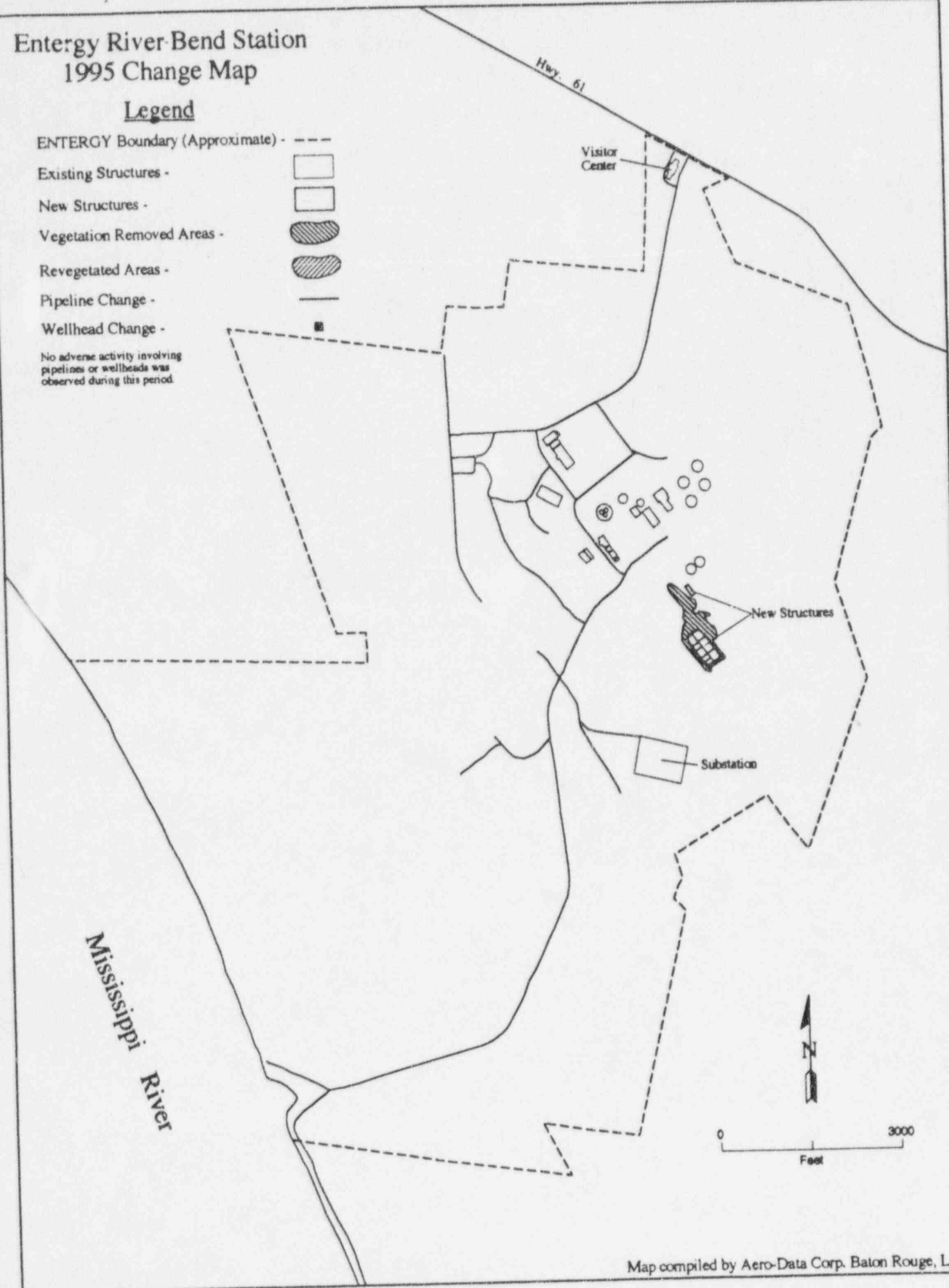
Vegetation Removed Areas - 

Revegetated Areas - 

Pipeline Change - 

Wellhead Change - 

No adverse activity involving pipelines or wellheads was observed during this period.



# Entergy River Bend Station 1995 Change / Frame Center Map

