PROJECT: Lake Pontchartrain, Louisiana, and Vicinity (Hurricane Protection)(Continuing)

LOCATION: The project is located in St. Charles, Jefferson, Orleans, St. Bernard, and St. Tammany Parishes in southeast Louisians in the general vicinity of New Orleans adjacent to Lake Pontchartrain.

AUTHORIZATION: Flood Control Act of 1965 and Water Resources Development Act of 1974 and Water Resources Development Act of 1986.

BENEFIT TO COST RATIO: The remaining benefit-remaining cost ratio is 9.0 to 1 at 3-1/8 percent. The benefit-cost ratio for the fiscal year for which Congress appropriated initial construction funds (FY 1967) was 17.6 to 1. The benefit-cost ratio is based on the project functioning independently.

STATUS: (1 January 1987)

SUMMARIZED FINANCIAL DATA			PERCENT COMPLETION	
Estimated Total Appropriation Requirement Scheduled Construction	508,174,000	510,000,000	Entire Project 68 Sep 2006 1/	
Unscheduled Construction	1,826,000		New Orleans East Unit 83 Dec 1993 New Orleans West Unit 0 Sep 2006	
Future Non-Federal Reimbursement Scheduled Construction Unscheduled Construction	33,000,000	33,000,000	Mandeville Unit 0 Indefinite 2/ Chalmette Unit 89 Sep 1991	
\$ 1 girls 1 girls 1		477,000,000	1/ Excludes Mandeville Unit which has an indefinite completion date. 2/ Completion schedule indefinite until financial support is furnished by local interests.	
Estimated Non-Federal Cost Scheduled Construction 107,687,000 Other Costs 63,530,000	204,217,000	205,000,000	And the second s	
Reimbursements: Hurricane Protection 33,000,000		•		

Division: Lower Mississippi Valley

SUMMARIZED FINANCIAL DATA (Cont.)

Control Valve Structures: 3

Unscheduled Construction	783,000	Contract the first
Cash Contribution 783,000	,	
Other Costs 0		
-Reimbursements early 17 17 17 0		
Total Estimated Scheduled Construction Cost	679,391,000	Accum % of
Total Estimated Unscheduled Construction Cost	2,609,000	Est Fed Cost
Total Estimated Project Cost	682,000,000	
Allocations to 30 September 1986	181,596,000	
Conference Allowance for FY 1987	16,000,000	
Allocation for FY 1987	15,375,000 1/	
Allocations through FY 1987	196,971,000	39
Allocation Requested for FY 1988	17,000,000	42
Scheduled Balance to Complete after FY 1988	293,420,000	· -
Unscheduled Balance to Complete After FY 1988	2,609,000	

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 $\underline{1}/$ Reflects \$625,000 reduction assigned as savings and slippage.

PHYSICAL DATA

Levees: Average height: Length: 80 miles	16 feet	Drainage Str	uctures: 9
Dam Closures: 2		Floodwalls:	17.9 miles
Pumping Plant: 1		Floodgates:	2

JUSTIFICATION: The lowlands in the Lake Pontchartrain tidal basin are subject to tidal overflow. The Greater New Orleans Metropolitan Area which lies in this basin will continue its rapid economic development in the future years even though severe damages have resulted from several hurricanes in the past years. Hurricane damages result from surges entering Lake Pontchartrain from Lake Borgne through natural tidal passes at the Rigolets and Chef Menteur Pass and the Inner Harbor Navigation Canal. The surges are intensified by local wind effects and the combination of waves and surges causing overtopping of the protective works along the shores of Lake Pontchartrain. The eastern portion of the area is also subject to flooding by surges and waves that move directly from Lake Borgne and overtop

Lake Pontchartrain, LA, and Vicinity (Hurricane Protection)

771

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the existing inadequate protective system seaward of the developed land areas. As a result, residences and industrial and commercial establishments suffer damage, business activities are disrupted, lives are endangered, and hazards to health are created. Hurricanes much more severe than any of record are possible. In the event of the occurrence of such a severe hurricane, catastrophic property damage and loss of human life would be experienced. Local interests have requested protection against these threats to life and property. Hurricane Betsy, in September 1965, caused extensive damage and flooding of urban areas of the New Orleans area to depths of up to 10 feet. Hurricane Camille occurred in the project area in August 1969, and flooded areas along the Inner Harbor Navigation Canal. Extensive flooding and overtopping of levess would have occurred in the project area in September 1974, if Hurricane Carmen had continued on its predicted course. In 1985, Hurricane Juan caused extensive flooding in the St. Charles Parish area. The Lake Pontchartrain hurricane protection project will provide protection from similar occurrences. However, flooding also occurred in St. John the Baptist Parish which will not be protected by the project. The average annual benefits, all flood control, are \$210,306,000, based on 1 October 1986 prices.

FISCAL YEAR 1988: The requested amount of \$17,000,000 will be applied as follows:

Lake Pontchartrain, LA, and Vicinity (Hurricane Protection)

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Grand Total \$17,000,000

The funds requested will increase the degree of protection in the New Orleans East Unit, New Orleans West Unit and the Chalmette Unit.

NON-FEDERAL COST: Local interests are to bear 30 percent of the first cost to include the fair market value of all lands, essements, and rights-of-way, including borrow and disposal areas, necessary for construction of the hurricane features and to accomplish all necessary alterations and relocations to roads, railroads, pipelines, cables, wharves, drainage structures, and other facilities made necessary by the construction works.

Lands and Damages \$41,975,000
Relocations 21,555,000

Cash Contributions: 21,555,000

Reimbursement: 107,687,000

Hurricane Protection 107,000

Total \$204,217,000

778

Local interests are required to operate and maintain all features of the project works. The annual cost to local interests for operation and maintenance is estimated at \$1,153,000 including \$63,000 for material replacements.

In addition, local interests, through the combined efforts of the State of Louisiana, local levee and drainage districts, and parish police juries, have spent an estimated \$25,366,000 between 1930-1963, based on the best cost records available, to improve and maintain the hurricane protection system existing prior to project authorization. Available costs of record are as follow:

1/ The Water Resources Development Act of 1974, (PL 93-251), provided that local assuring agencies for this project could, if they so choose, repay their cash obligations using a deferred payment plan. New assurances have been executed by local interests incorporating a deferred payment plan. These assurances were approved by the Secretary of the Army on 7 December 1977. Local interests have been making payments under this plan, with first payments received in FY 1977.

Lake Pontchartrain, LA, and Vicinity (Hurricane Protection)

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Combination of State of Louisiana and Lake Borgne Levee District and Chalmette Back
Levee District on the Chalmette Back Levee Protection Systems \$4,410,000
Orleans Levee District Board 12,010,000
Port of New Orleans (levees along Industrial Canal) 924,000
Pontchartrain Levee District 5,022,000
Fourth Drainage District of Jefferson Parish 3,000,000
Total 925,366,000

A very severe hurricane, "Betsy," occurred in the project area in September 1965, just prior to the authorization of the project in October 1965. Considerable damage was done to many of the existing levees, and local interests immediately instituted an accelerated rehabilitation program, with the view of restoring and strengthening existing protection prior to succeeding hurricane seasons. Only work performed by local interests after project authorization, which conforms to the project design criteria and alignment, is considered as work-in-kind in lieu of cash contribution.

STATUS OF LOCAL COOPERATION: Assurances are required for the two independently justified plans.

1. Chalmette Area Plan:

- a. Orleans Levee District: New agreements of assurances covering all local cooperation requirements and a deferred payment plan as authorized by Water Resources Development Act of 1974 (FL 93-251) were executed on 30 March 1976. These assurances were accepted on behalf of the United States on 7 December 1977.
- b. St. Bernard Parish Police Jury and Lake Borgne Basin Levee District: New joint agreements of assurances covering all local cooperation requirements and a deferred payment plan as authorized by Public Law 93-251 were executed on 2 April 1976. These assurances were accepted on behalf of the United States on 7 December 1977.
- 2. High Level Plan:
- a. Orleans Levee District: For the Berrier Plan, new agreements of assurances covering all local cooperation requirements and a deferred payment plan as authorized by Public Law 93-251 were executed on 30 March 1976. These assurances were accepted on behalf of the United States on 7 December 1977. Amended assurances for the High Level Plan were executed by the local sponsor on 29 May 1985, and accepted by the United States on 21 June 1985.

Lake Pontchartrain, LA, and Vicinity (Hurricane Protection)

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- b. St. Tammany Parish: The Louisiana Office of Public Works executed an act of assurance dated 8 November 1976 agreeing to fulfill all local cooperation requirements for that portion of the project in St. Tammany Parish. These assurances were accepted on behalf of the United States on 7 December 1977. Amended assurances for the High Level Plan are required; however, due to failure of the local sponsor to agree to the items of local cooperation, this portion of the project has an indefinite completion date.
- c. Pontchartrain Levee District: New agreements of assurances covering all local cooperation requirements and a deferred payment plan as authorized by Public Law 93-251 were executed on 20 September 1976. On 8 November 1976, the Louisiana Office of Public Works agreed to lend financial assistance above \$100,000 to the Pontchartrain Levee District for that portion of the Barrier Plan which is the responsibility of that levee district. These assurances were accepted on behalf of the United States on 7 December 1977. Amended assurances for the High Level Plan are being reviewed by the Pontchartrain Levee District for the St. Charles Parish portion of the project. The Levee District is seeking financial support from the State of Louisiana.
- d. East Jefferson Levee District: Amended assurances for the High Level Plan are being reviewed by the East Jefferson Levee District for the Jefferson Parish portion of the project. The Levee District is seeking financial support from Jefferson Parish and/or the State of Louisiana. These levees were previously the responsibility of the Pontchartrain Levee District.

COMPARISON OF FEDERAL COST ESTIMATE: The current Federal cost estimate of \$510,000,000 is a decrease of \$1,000,000 from the latest estimate (\$511,000,000) submitted to Congress. This change includes decreases of \$3,920,000 for adjustments in the estimated inflation allowance through the construction period, \$1,984,000 due to favorable bids received, \$25,000 from savings on completed work and \$19,000 for adjustments in the allowance for contingencies. These decreases were partially offset by increases of \$925,000 based on more detailed planning of construction and \$4,023,000 due to a reanalysis of Federal and non-Federal cost sharing requirements.

STATUS OF ENVIRONMENTAL IMPACT STATEMENT AND COMPLIANCE WITH CLEAN WATER ACT: The final Environmental Impact Statement was filed with the Council on Environmental Quality on 17 January 1975. By Court Order dated 30 December 1977, a revised Environmental Impact Statement was ordered. A draft revised Environmental Impact Statement for the High Level Plan and reevaluation report which documents the proposal to adopt that plan instead of the barrier plan was released to the public and filed with the Environmental Protection Agency on 16 December 1983. The final revised Environmental Impact Statement was filed with the Environmental Protection Agency on 7 December 1984.

The provisions of Section 404 of the Clean Water Act have been met by a Statement of Findings signed by the District Engineer on 20 August 1975, for the majority of the project. The provisions of Section 404 of the Clean Water Act for work after 1 October 1981, have been met for the Chalmette Unit by a Supplemental Section 404(b)(1) Evaluation Report signed by the District Engineer on 15 November 1982; for the New Orleans East Unit by a Supplemental Section 404(b)(1) Evaluation Report signed by the District Engineer on 18 November 1983; and for the New Orleans

Lake Pontchartrain, LA, and Vicinity (Hurricane Protection)

APPROPRIATION TITLE: Construction General - Local Protection (Flood Control)

PROJECT: Large to Golden Meadow, Louistana (Murricane Protection) (Confimular)

LOCATION: The Project is located in Lafourche Parish, Louisiana, about 28 miles southwest of New Orleans and about 25 miles inland from the Gulf of Mexico along Bayou Lafourche, south of the Gulf Laracoastal Waterway, extending from Larose to Golden Meadow, a distance of about 16 miles.

West/Nandeville Unit by a Supplemental Section 404(b)(1) Evaluation Report signed by the District Engineer on 18 November 1983. A Public Notice was issued for the High Level Plan on 28 March 1984, and certification from the State of Louisiana was received on 29 June 1984.

OTHER INFORMATION: Funds to initiate preconstruction planning were appropriated in FY 1966 and for construction in FY 1967.

BENEFIT TO COST RATIO: The remaining benefit-remaining cost ratio 10.1 to 1 at 3-1/4 percent. The benefit-cost ratio for the fiscal year for which Congress appropriated initial construction funds (FY 1972) was 1.4 to 1. The benefit-cost ratio is based on the project functioning independently.

		cum % of STATUS:	(1 January 1987)
CIRAGANTON UTWANC		Secretal Description	PERCENT COMPLETION COMPLETE SCHEDULE
SUMMARIZED FINANCE Estimated Federal Cost Estimated Non-Federal Cost	\$64,000,000 27,400,000	Entire Pro	
Cash Contribution 4 13,8	78 (00 00 00 00 00 00 00 00 00 00 00 00 00	e o jednost so	suger to the second second
Total Estimated Project Cost	\$91,400,000	e graz 4 jim ongo in os na manangani grapagan	es qualificación de la companya de l
	3,500,000	The state of the s	
Allocation for FY 1987 Allocations through 1 1987 Allocation Requested for FY 1988	45,551,000	71	A STATE OF S
Scheduled Balance to Complete after Unscheduled Balance to Complete after	FY 1988 14,649,000 FY 1988 0	The second secon	
1/ Reflects \$137,000 reduction assi			and the second of the second o

District: New Orleans
Larose to Golden Meadow, LA (Hurricane Protection)

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