DATA FOR TESTIFYING OFFICERS ON FY 1991 CIVIL WORKS BUDGET LAKE PONTCHARTRAIN, LOUISIANA, AND VICINITY

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LAKE PONTCHARTRAIN, LA, AND VICINITY *Revised 23 January 1990

DATA FOR TESTIFYING OFFICERS ON FY 1991 CIVIL WORKS BUDGET LAKE PONTCHARTRAIN, LOUISIANA, AND VICINITY

BENEFIT-COST RATIO:

a. <u>Comparison of Remaining B/C Ratios</u>: The remaining B/C ratio is 5.0 to 1, a decrease of 7.6 from that last presented to Congress (12.6 to 1). This change is due to using benefits and costs from the latest economic analysis corrected for interest rate changes as directed by EC 11-2-156, dated 31 March 1989.

b. <u>Annual Benefits</u>: The following tabulation is provided for the purpose of comparing the benefits presented in the justification paragraph of the Justification Sheet.

		TOTAL BENEFITS	
		Current Estimate	
	Last Est. Submitted	at Project	Change
Annual Benefits	to Congress	Interest Rate	From Last
			(+ or -)
Flood Control	\$223,506,000	\$179,856,000	\$-43,650,000
Inundation Reduction $1/$	(223,506,000)	(179,856,000)	(-43,650,000) <u>2</u> /
Total Annual Benefits	\$223,506,000	\$179,856,000	\$-43,650,000
Interest Rate Used	3-1/8%	3-1/8%	

1/ Essentially complete protection will be provided to 105,190 acres, comprised of 61,900 acres of urban type development, 43,290 acres of undeveloped land which would be impacted by a project hurricane. The current value of all lands is \$7,615,000,000 and of improvements is \$15,688,000,000. 1980 population: 858,000.

2/ Change due to using benefits and costs from the latest economic analysis corrected for interest rate changes as directed by EC 11-2-156, dated 31 March 1989.

LAKE PONTCHARTRAIN, LA, AND VICINITY

LAKE PONTCHARTRAIN, LA, AND VICINITY

BENEFIT-COST RATIO: (Cont'd)

6.22

b. Annual Benefits: (Cont'd)

	Remaining Benefits/Cost			
	Benefits & Costs When	· · · · · · · · · · · · · · · · · · ·	Current Estimate	
and a second	1st Funded for Construction	Last Presented	at Project	Change
Annual Benefits	<u>In FY 1967</u> 1/	to Congress	Interest Rate	From Last
				(+ or -)
Flood Control				
inundation Reduction 2/	\$51,389,400	\$113,838,000	\$ 91,607,000	\$-22,231,000 <u>3</u> /
Intensification			<u> </u>	
Total Annual Benefits	\$51,733,400	\$113,838,000	\$ 91,607,000	\$-22,231,000
Total Annual Costs	\$2,945,500	\$ 9,067,000	\$ 18,161,000	\$ +9,094,000 <u>3/</u>
B/C Ratio	17.6	12.6	5.0	-7.6
Interest Rate Used	3-1/8%	3-1/8%	3-1/8%	

Based on cost estimate effective 1 July 1975. 1/

2/ Essentially complete protection will be provided to 105,190 acres comprised of 61,900 acres of urban-type development, and 43,290 acres of undeveloped land which would be impacted by a project hurricane. The current value of all lands is \$7,615,000,000; current value of all improvements is \$15,688,000,000. 1980 population was 858,000.

3/ Change due to using benefits and costs from the latest economic analysis corrected for interest rate changes as directed by EC 11-2-156, dated 31 March 1989.

ALLOCATION AND APPORTIONMENT OF FIRST COSTS:

	A11c	cation of First (Costs			
	Based on Last Es	timate		Percent of (Current	
Purpose	Presented to Con	Igress	Current	<u> </u>		
Flood Control	\$617,000,000		\$589,000,000	100		
	Apportionment Based on Esti	of First Cost mate Last		Based on Curro	ent Estimate	
	Presented to	Congress	<u>Costs</u>		Perce	ent of Total
Purpose	Federal	Non-Federal	Federal	Non-Federal	Federal	Non-Federal
Flood Control	\$432,000,000	\$185,000,000	\$423,000,000	\$166,000,000	70	30

LAKE PONTCHARTRAIN, LA, AND VICINITY

The apportionment of cost is based on the cost sharing formula as outlined in House Document No. 231, 89th Congress, and authorized by Flood Control Act of 1965. H.D. 231 specifies that local interests contribute in cash or equivalent work not less than 30 percent of the total project cost, said 30 percent to include the fair market value of lands, damages, and alterations (relocations) for the construction of the project.

App	ortionment of Firs	t Costs		
Last Estima	te to Congress:	Current	Estimate	
Federal	Non-Federal	Federal	Non-Federal	
\$432,000,000	\$185,000,000	\$423,000,000	\$166,000,000	
	Details of Apport	Ionment		
	Project C	osts to	Apport	ionment 1/
	be Apport	ioned	Federal	Non-Federal
To be apportioned on 70/30 basis:	\$588,770,	000		
70% of Project Costs:			\$412,000,000	
30% of Project Costs:				\$176,770,000
Cost of Realignment at Florida Avenue			a series a subscription of the series of the	· · ·
Container Plant	230,	000		230,000
Total Project Cost (Ultimate)	\$589,000,	000	\$412,000,000 2/	\$177,000,000 3/
Reimbursement			11,000,000	-11,000,000
Total Current Estimate (Allocation	ns)		\$423,000,000	\$166,000,000

1/ See YDTO - 10, Local Cooperation, paragraph (a) (4).

- 2/ Excludes \$11,000,000 which local interests are required to reimburse the Federal Government for costs allocated due to the Water Resources Development Act of 1974. Section 92 specifies that local interests may agree to pay the unpaid balance of their required cash payment, due in annual installments, in accordance with a specific formula.
- 3/ Includes \$11,000,000 which local interests are required to reimburse the Federal Government for costs allocated due to the Water Resources Development Act of 1974. Section 92 specifies that local interests may agree to pay the unpaid balance of their required cash payment, due in annual installments; in accordance with a specific formula.

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FINANCIAL DATA:

a. <u>Comparison of Federal Cost Estimate</u>: (Full Funding). The current Federal (Corps of Engineers) cost estimate of \$423,000,000 is a decrease of \$30,000,000 from the latest estimate (\$453,000,000) submitted to Congress (FY 1989). This change includes the following items:

<u>)tem</u>	Amount
Price Escalation on Construction Features	\$- 6,789,000
Design Changes	- 2,192,000
Post Contract Award and Other Estimating Adjustments	-21,019,000 1/
Total	\$-30,000,000

1/ Due primarily to contract awards and completed plans and specifications.

FINANCIAL DATA: (Cont'd)

b. <u>Non-Federal Cost Estimate</u>: In accordance with the cost sharing and financing concepts reflected in the Flood Control Act of 1965, the non-Federal sponsor must comply with the requirements listed below:

		Annual	
		Operation,	
	Payments During	Maintenance,	
	Construction and	and	
Requirements of Local Cooperation	Reimbursements (Previous)	Replacement Costs	
and the second			
Provide lands, easements, and rights-of-ways, including borrow	\$ 39,638,000	· _	·
areas and spoll disposal areas.	(40,011,000) <u>1</u> /		
Accomplish alterations to roads, pipelines, cables, wharves,	16,127,000	-	
oll wells, and any other facilities necessary for construction of the project.	(16,063,000) 2		
Bear 30 percent of total project cost, including the items listed	110,235,000		
above and a cash contribution or equivalent work specifically	(107,926,000) 3/		
undertaken as an integral part of the project after authorization	(107,928,000) <u>-5</u> /		
and in accordance with construction schedules as required by Chief		- * · · · .	
of Engineers, excluding a reimbursement to the Federal Government			
for costs allocated due to the Water Resources Development Act of 1974.			
Reimburse the Federal Government for cost allocated due to the	\$ 11,000,000		
Water Resources Development Act of 1974.	(21,000,000) <u>4</u> /		
Bear all costs of operations, maintenance, and replacements of all	· · · _	\$1,225,000	
features of the project works.			
	and the second sec		
Total Non-Federal Costs	\$177,000,000	\$1,225,000	
and the second secon			
1/ Based on a review of remaining lands required for construction.			
2/ Due to a review of the remaining relocations.			
3/ This change is required in order for local interest to maintain their	r required share of the proje	ect cost.	
4/ The Water Resources Development Act of 1974, (PL 93-251), provided t			they so choose, repa

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.

1 January 1990 New Orleans District

LAKE PONTCHARTRAIN, LA, AND VICINITY

1 January 1990 New Orleans District

FINANCIAL DATA: (Cont'd)

c. Comparison of Preconstruction Cost Estimate: Not applicable.

d. <u>Contingencies</u>: The estimate includes \$37,205,000 for contingencies, which is 19% of the uncompleted work. The estimate last presented to Congress included \$40,269,000 for contingencies, which was 18% of the uncompleted work.

e. <u>Firmness of Federal Cost Estimate</u>: The current estimate is based on design memorandums, plans and specifications, contracts, and completed work, with costs projected through the construction period.

f. Appropriation History:

Appropriation History		FY 1990 Budget History		FY 1991 Budget Request
the second s		LMVD Recommendation	\$44,000,000	\$11,655,000
Total thru FY 1984	\$161,238,000 <u>1</u> /	OCE Recommendation	44,000,000	11,655,000
FY 1986	20,358,000	OMB Allowance	44,000,000	11,655,000
FY 1987	13,375,000	House Allowance	39,898,000	
FY 1988	13,140,000	Senate Allowance	39,898,000	
FY 1989	9,214,000	Conference Allowance	39,898,000	
FY 1990	34,292,000 2/	Work Allowance	34,292,000 2/	
FY 1990 Total to date	\$251,617,000	Capability	34,292,000	\$11,655,000

1/ Initial construction funds received in FY 1967.

2/ Reflects reduction of \$3,849,000 assigned as savings and slippage, \$410,000 sequestered in accordance with the Gramm-Rudman-Hollings Act, and \$1,347,000 reprogrammed from the project.

g. Capability. No funds, in addition to the budget request of \$11,655,000, can be effectively utilized.

FINANCIAL DATA: (Cont'd)

h. Transfers:

FY 1989:

<u>FY 1989</u> :		Month of		
From	To	Transfer	Amount	
Lake Pontchartrain	OCE	0c† 88	\$10,020,000	
Lake Pontchartrain	OCE	Jan 89	\$11,500,000	
Lake Pontchartrain	Mississippi River- Gulf Outlet	Mar 89	\$ 650,000	
Lake Pontchartrain	New Orleans to Venice	Apr 89	\$ 500,000	
Lake Pontchartrain	OCE	Jul 89	\$ 4,500,000	

1 January 1990 New Orleans District

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Reason
Funds available due to revised estimate of contractor earnings in FY 1989.
Funds available due to revised estimate of contractor earnings in FY 1989.
Funds available due to revised estimate of contractor earnings in FY 1989.
Funds available due to delay in award of St. Charles Parish contract based on additional time required for GDM approval and ROW acquisition.
Funds available due to delays in award of two contracts as a result of a bid protest

and a ROW acquisition problem; and a corresponding reduction in S&A.

FY 1990: None.

Anticipated: None.

I. Unobligated and Unexpended Balances:

		Estimated at End
	End of FY 1989	of FY 1990
Unobligated Balance	\$ 84.4	\$ O
Undelivered Orders	<u>1134 .9 1/</u>	
Unexpended Balance	\$ 1219.3	\$ O

1/ Contract earnings less than anticipated. Funds will be expended in FY 1990.

LAKE PONTCHARTRAIN, LA, AND VICINITY

FINANCIAL DATA: (Cont'd)

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h. <u>Transfers</u>:

FY 1989:		Month o	f
From	To	Transfer	Amount
Lake Pontchartrain	OCE	0c† 88	\$10,020,000
Lake Pontchartrain	OCE	Jan 89	\$11,500,000
Lake Pontchartrain	Mississippi River- Gulf Outlet	Mar 89	\$ 650,000
Lake Pontchartrain	New Orleans to Venice	Apr 89	\$ 500,000
Lake Pontchartrain	005		¢ 4 500 000
	OCE	Jul 89	\$ 4,500,000

1 January 1990 New Orleans District

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Funds available due to delays in award of two contracts as a result of a bid protest and a ROW acquisition problem; and a corresponding reduction in S&A.

FY 1990: None.

Anticipated: None.

i. Unobligated and Unexpended Balances:

		Estimated at End
	End of FY 1989	of FY 1990
Unobligated Balance	\$ 84.4	\$ O
Undelivered Orders	1134.9 1/	0
Unexpended Balance	\$ 1219.3	\$ 0

1/ Contract earnings less than anticipated. Funds will be expended in FY 1990.

LAKE PONTCHARTRA [N, LA, AND V[C[N[TY

1 January 1990 New Orleans District

STATUS AND SCHEDULE:

a. <u>Scheduled Completion Dates</u>: The scheduled completion date for the New Orleans EAst Unit is currently September 1995, a delay of 1-3/4 years from the last date presented to Congress (December 1993). This delay is due to local interest needing time to complete maintenance work underway in the project area.

b. P	erformance	- FY	1990:
------	------------	------	-------

Last Presented	Present	
to Congress	Schedule	Remarks
NEW ORLEANS EAST UNIT		
<u>(nitiate</u>		
Orleans Ave Outfall Canal	Not presented	Local interests proceeding with work. No Federal involvement in FY 1990.
Not Presented		
Orleans Floodwall Extension	Complete	(tem is physically complete. Claim pending.
		х х
New Orleans East Back Levee	Complete	Completion delayed due to additional time required to process contract
Sta. 771-1099		modifications.
NEW ORLEANS WEST UN T		
• ••		
Continue		
St. Charles Levee 1st Lift	(nitiate	Additional time required for GDM approval and ROW acquisition.
Alinement N. of Airline		Name was changed from St. Charles Levee to Allnement N. of Airline.
CHALMETTE UN (T		
(nitiate		
Bayou Bienville Floodwall Capping	Not presented	Capping delayed until final tevee enlargement is completed.
bayou breavitte i foodwatt capping	nor presented	capping detayed unitin thiat levee entailigement is comprehed.
Sta. 1117-1568 Floodwall Capping	Not presented	Capping delayed until final levee enlargement is completed.
Side 1117-1500 Troodwart Capping	not presented	capping detayed until third levee entailgament is completed.
Not Presented:		
Sta.1116-1568 (2nd Enlgt)	Complete (lift)	Completion delayed due to additional time required for adverse weather.
c. Construction Difficulties: None.		
		8 LAKE PONTCHARTRA [N, LA, AND V [C [N [TY

PHYSICAL DATA CHANGES: Same as last presented to Congress.

OTHER DATA CHANGE: None.

LOCAL COOPERATION: (Refer to YDTO-10)

Rights-of-way Schedule for Items Which Could	Be Initiated In the Remained	der of the Current Fiscal	Year and in the Budg	et Fiscal Year.
	Action taken	Scheduled Date for	Date R/W	Scheduled
<u>ltem of Work</u>	by District	Receipt of R/W	Was Obtained	<u>Award Date</u>
NEW ORLEANS EAST UNIT				
New Orleans Lakefront Levee	<u>1/</u>	Aug 90	•	0c† 90
Orleans Outfall Canal				
NEW ORLEANS WEST UNIT				
Alignment N. of Airline Hwy (1st ift)	2/	Jul 90		Sep 90
Jefferson Lakefront Levee	Requested 8 Aug 89	Jan 90	,	Apr 90
Sta. 438-550				
Jefferson Lakefront Levee	Requested 3 Aug 89	May 90		Jul 90
Sta. 128-210			· · · · · · · · · · · · · · · · · · ·	
Jefferson Lakefront Levee	To be requested May 90	Nov 90		Jan 91
Sta. 354-435				
CHALMETTE UNIT				
Orleans N. of Florida Ave Floodwall Capping	To be requested Feb 90	Aug 90		0c† 90
Batou Dupre FW Cap	To be requested Apr 90	Oct 90		Dec 90

1/ Work currently scheduled to be accomplished by local interest.

2/ ROW request schedule is contingent upon approval of the GDM.

PROBLEMS: All questions were fully answered in last year's appropriation hearing.

ADDITIONAL INFORMATION:

a. <u>Florida Avenue Complex</u>: The addition of a major pumping station has been approved for the Florida Avenue Complex in addition to vertical lift gates in the drainage canal. The current cost estimate includes the vertical lift gates and the pumping station. Since the pumping station is an interior drainage item, local interests are constructing the station as part of their required project contribution. In addition, local interests plan to construct the floodwall reaches in this vicinity on both sides of the inner Harbor Navigation Canal as a work-in-kind contribution.

LAKE PONTCHARTRAIN, LA, AND VICINITY

ADDITIONAL INFORMATION: (Cont'd)

1 January 1990 New Orleans District

b. <u>St. Charles Parish Lakefront Levee</u>: In view of the need for further environmental studies, as well as the inclusion of Bayous LaBranche and Trepagnier in the Louisiana Natural and Scenic River System, the construction of this levee has been deferred. As a result of litigation on the project, alternatives to the authorized lakefront levee in St. Charles parish were examined. Based on completed environmental studies the most favorable alternative is a levee which would generally parallel and run north of Airline Highway (US 61). This alignment is recommended as part of the High Level Plan of Protection.

c. <u>Mandeville Seawall</u>: The Mandeville Unit portion of the project had previously been placed in an indefinite category due to local interests' objections to the project. St. Tammany Parish Police Jury refused to furnish the financial assurances. (Refer to YDTO-12, Current Status of Assurances, Lake Pontchartrain Barrier Plan.) By virture of a meeting on 6 July 1978, and a letter dated 8 August 1978, the mayor of Mandeville indicated interest in the seawall repairs. In October 1980, the town of Mandeville furnished a letter of intent to provide the financial support for the seawall restoration, providing that the restoration could be accomplished in such a way as to not preclude future recreational swimming at the seawall. A special election was held in St. Tammany Parish on 22 October 1983, to authorize the levy of a special tax to repair or replace the seawall at Mandeville. This tax failed to pass; therefore, the completion date for the Mandeville Seawall is now indefinite.

d. Report of Significant Post-Authorization Changes:

(1) In compliance with OCE letter dated 21 November 1973, subject, "Lake Pontchartrain, Louisiana and Vicinity, Lake Pontchartrain Barrier Plan Report on size selection, Chef Menteur Navigation Structure and the Rigolets and Seabrook Locks," and LMVD 1st End thereto, a significant postauthorization change report was prepared and submitted by NOD for review and approval on 7 January 1974. The report was returned by OCE on 16 December 1974, for additional information. A Public Meeting was held on 22 February 1975, in which comments were received on the sizes of the navigation structures. Additional work on the report was delayed until a review of the previous sizing decisions could be made. This review was completed and a new report was submitted on 25 June 1976. This report which covers the Rigolets Lock only was approved by OCE on 21 September 1976, subject to agreement with the local sponsor, which has been subsequently received.

(2) Public opposition to the environmental impacts of the Barrier Plan resulted in a court-ordered revision to the EIS. This resulted in a project reevaluation which recommended a design change from the previously authorized Barrier Plan of Protection to a High Level Plan without the barrier structures. The final Reevaluation Report and a required post authorization change report were completed and forwarded to higher authority on 8 August 1984, and approved by the Director of Civil Works on 7 February 1985.

e. <u>Save Our Wetlands Suit</u>: Save our Wetlands, Inc., filed suit on 8 December 1975, in United States District Court for the Eastern District of Louisiana, against the New Orleans District Engineer, the Secretary of the Army, the Administrator of the Environmental Protection Agency, and the President of the Orleans Levee Board. The Clio Sportsman's League joined the suit on 21 June 1976. The suit alleges the following:

(1) that the regional cumulative Environmental impact Statement should be accomplished prior to proceeding with the project;

(2) that the Corps has not complied with the conditions of final approval by the Environmental Protection Agency of Section 404 requirements of the Federal Water Pollution Control Act;

LAKE PONTCHARTRAIN, LA, AND VICINITY

ADDITIONAL INFORMATION: (Cont'd)

1 January 1990 New Orleans District

(3) that the Corps has not completely eliminated the St. Charles Parish lakefront levee as required by the Environmental Protection Agency. The Government moved to dismiss the lawsuit based on laches and the contention that the allegations of the plaintiffs were not liable to trial in a court of justice under the National Environmental Policy Act. A hearing was held on 5 November 1976, and the court denied the motion on 7 December 1976. In addition, a hearing was held on 15 December 1976, on the Orleans Levee District's (a co-defendant) motion to dismiss issues regarding assurances for the project. The court denied the motion. On 30 December 1977, Judge Charles Schwartz, of the Federal District Court in New Orleans, issued an order enjoining any further construction of the Chef Menteur and Rigolets Complexes, New Orleans East Area (East of Paris Road), and the Chalmette Area of the project until a new environmental statement is prepared.

The suit also seeks to have the New Orleans East Lakefront Levee removed and to have three openings for tidal interchange provided under the Southern Railroad embankment. However, on 8, 10, and 27 March 1978, Judge Charles Schwartz lifted the injunction on the New Orleans East Area (East of Paris Road) and on 10 March 1978, he lifted the injunction on the Chalmette Area Plan.

f. <u>St. Tammany Parish Police Jury Suit</u>: This agency has also filed a lawsuit on 30 March 1977, attacking the project. Their suit was similar to the Save Our Wetlands suit and was combined with that suit.

g. <u>St. Charles Parish Suit</u>: On 12 April 1977, an unincorporated association of citizens and property owners filed suit against the project in an effort to force construction of the St. Charles Parish lakefront levee, which is indefinitely deferred for environmental reasons, or, in the event the levee is not built, to force the Government to purchase lands in St. Charles Parish which may otherwise be subject to tidal flooding. The U.S. Attorney sought dismissal on the grounds that the plaintiffs lacked cause of action upon which relief could be granted by the court. At a 17 May 1978 hearing, Judge Charles Schwartz declared that the suit was premature and deferred further consideration until completion of the revised EIS.

h. <u>Deferred Payment Plan</u>: The modification authorized by the Water Resources Development Act of 1974, whereby local interests may agree to pay the unpaid balance of the cash payment due, with interest, in yearly installments, has provided immediate relief to local interests. Initial cash payments were received from local interests in FY 1977, and they have expressed their appreciation of the plan. The deferred payment plan expires 1 October 1990, at which time the unpaid balance will be due to meet the 30% share of the project costs.

i. <u>General</u> - Because of the widespread interest which had been expressed with regard to the Barrier portion of the project, the Sub-Committee of Water Resources for the House Public Works and Transportation Committee held a hearing in New Orleans on 5 February 1978. The purpose of the hearing was to obtain information on the hurricane protection plan for the project and to give interested parties an opportunity to make their views known.

j. <u>Chalmette Unit Economic Analysis</u>: Since the Chalmette Unit is a separate entity from an engineering, hydrological, and economic standpoint, the court has required that a separate economic reanalysis for this unit be conducted separate and apart from the Lake Pontchartrain Hurricane Protection project economic reanalysis.

<u>High Level Plan</u>: A public meeting was held in New Orleans on 21 November 1981, to seek public comment on the tentatively selected High Level Plan. The High Level Plan will provide for heightening and strengthening the existing hurricane protection levee systems in Orleans Parish, the east * bank of Jefferson Parish; repairing and rehabilitating the Mandeville Seawall in St. Tammany Parish; building a new mainline *

1 January 1990 New Orleans District

ADDITIONAL INFORMATION: (Cont'd)

hurricane levee on the east bank of St. Charles Parish, just north of US Highway 61 (Airline Highway); raising and strengthening the existing levee which extends along the Jefferson-St. Charles Parish boundary between Lake Pontchartrain and Airline Highway; and deferring construction of the proposed Seabrook lock until its feasibility as a feature of the Mississippi River-Guif Outlet navigation project can be determined. Areas enclosed by the levee and floodwall construction will be provided protection against tidal surge flooding resulting from the Standard Project Hurricane (SPH). The public response is heavily in favor of the High Level Plan.

The draft Reevaluation Study (including a draft EIS) recommending the High Level Plan was submitted by New Orleans District for higher level review on 15 December 1982. The Reevaluation Report was released to the public and filed with the EPA on 16 December 1983.

A public meeting to discuss the High Level Plan was held on 28 June 1984. The final report, EIS and post authorization change report, recommending the High Level Plan, were forwarded to higher authority on 8 August 1984, and approved on 7 February 1985.

A draft mitigation report with corresponding EIS was prepared and distributed for public review on 16 March 1988. The completion date for submittal of the final EIS is currently unscheduled pending legal opinion from consul as to whether local assurers are legally bound to sponsor project mitigation.

ENVIRONMENTAL INFORMATION:

a. <u>Status of Environmental Impact Statement</u>: - 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 the Reevaluation Report, which documents the proposal to adopt that plan instead of the Barrier Plan, were 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.

b. Changes in Environmental Impact Statement Scheduling: No change from that last submitted to Congress.

c. Environmental Opposition:

(1) The known environmental opposition to the barrier plan of protection for the Lake Pontchartrain, Louisiana, and Vicinity Hurricane Protection project is summarized below:

(a) The Orleans Audubon Society opposes the disposal and ponding of dredged material in the marshes along the Chef and Rigolets Passes, along the MR-GO and in New Orleans East, and the proposed borrow area on Apple Pie Ridge along US Highway 90. They believe these disposal and borrow plans will destroy valuable marshland that Louisiana cannot afford to lose. They also recommend that levees be built around populated areas only and the Barrier Plan be eliminated.

1 January 1990 New Orleans District

ENV [RONMENTAL [NFORMAT [ON: (Cont'd)

c. Environmental Opposition: (Continued)

(b) The Louisiana Wildlife Federation recommended that the St. Charles Parish segment be eliminated from the project plan because it will instigate further encroachment and deterioration of a rapidly dwindling and fragile marsh ecosystem. They felt that the placement of the barrier structures as proposed on the Rigolets and Chef Menteur Pass may have severe, irreversible consequences on the delicate balance which differentiates between the fine line which constitutes a fresh and a saline marsh ecosystem.

(c) The Sierra Club, Delta Chapter, believes that wetlands represent economic, environmental, and recreational values which are far more important to the public interest than the claimed benefits from developing such lands for increased taxes. For this reason they recommend that the project should be used to protect existing settlement, and not to encourage intensive development in one of the large flood plains between the Mississippi River and the Gulf of Mexico.

(d) The Bonnet Carre' Rod and Gun Club and the St. Charles Environmental Council oppose the lakefront levee in St. Charles Parish. They favor a hurricane protection levee generally along Airline Highway (US Hwy 61) in St. Charles Parish. They believe this alignment would be environmentally acceptable and would still protect the presently developed areas in St. Charles Parish.

(e) The Clio Sportsman's League of New Orleans' position favors hurricane protection, but opposes the "so called" policy of unnecessary private land enhancement at the expense of the public and the environment. They opine that the barriers with its borrow, disposal and ponding areas, and accompanying future developments will play a leading role in the destruction of Lake Pontchartrain and, eventually, the entire Maurepas, Pontchartrain, Catherine and Borgne estuary system.

(f) The St. Tammany Environmental Council is of the opinion that the acknowledged and potential adverse environmental and economic impact of the Lake Pontchartrain, Louisiana, and Vicinity hurricane protection plan far outweighs the benefits our population may receive in the form of hurricane protection.

(g) The St. Tammany Sportsman's League is opposed to the "Floodgates" at the Rigolets because they say it will destroy the interplay between the lake and the marshes which supplies 50 percent of all nutrients that feed the flora and fauna in Lake Pontchartrain. "The loss of these nutrients will result in the death of the lake," they opine.

(h) The Environmental Defense Fund has expressed concern regarding the whole project, more specifically the New Orleans East Area. They consider the wetlands in the New Orleans East Area are still viable and could be restored to a high level of productivity given appropriate redesign of the levees; provision for tidal flows and water circulation; and stringent regulation of dredge fill, and drainage activities in accordance with the Corps' regulations and wetland policy.

LAKE PONTCHARTRA[N, LA, AND V[C[N[TY

LAKE PONTCHARTRA [N, LA, AND V [C [N [TY

1 January 1990 New Orleans District

ENV[RONMENTAL [NFORMAT[ON: (Cont'd)]

c. Environmental Opposition: (Cont'd)

(2) Environmental opposition to the High Level Plan centers on two major issues. Fourteen groups have expressed concern over the proposal to locate borrow pits in Lake Pontchartrain near the Jefferson Parish Lakefront. Possible adverse water quality impacts are the primary concern. Eleven of these groups have expressed opposition to the enclosure of wetlands by the hurricane protection levee in New Orleans East. Four groups also oppose the levee alignment in St. Charles Parish because the levee would enclose a wetland and may subject it to development in the future. To date, there are no court injunctions filed against this plan.

d. Other Environmental Opinions:

(1) The US Fish and Wildlife Service and the National Marine Fisheries Services have fully cooperated in developing a plan for hurricane protection for the metropolitan area of New Orleans that will alleviate, to the fullest extent feasible, any project impacts on the fish and wildlife resources in the area. Both have opposed the St. Charles Parish lakefront levee and have made specific recommendations in the other segments of the project to help minimize the destructive features of the project.

(2) The Environmental Protection Agency has also fully cooperated in helping us to develop an environmentally feasible plan. (n their review of the statement of findings for the plans for placement of dredged material for this project they stated that tidal interchange should be allowed in the New Orleans East area until developed areas are threatened.

e. Environmental Studies:

(1) Phase [of the biological transport studies contract entered into with the Louisiana State University along with a preliminary Phase [] scope study based on Phase [data have been completed. The remaining portions of the contract have been terminated at the request of LMVD due to the preference for the High Level Plan.

(2) The EPA, in their review of the 404 proceedings, have requested us to study whether the drainage structures in the South Point to GiWW levee can be changed with regard to their operation. They would like to see the structures remain open during normal tidal conditions to nourish the marsh in New Orleans East with the lake water. The Louisiana Wildlife Federation and the U.S. Fish and Wildlife Service are supportive of this recommendation. We coordinated this request with the Orleans Levee District, the Sewerage and Water Board, the Mosquito Control Board, and the City Planning Commission and found extensive opposition. As a result of this opposition and since Fish & Wildlife Management is not an authorized federal program purpose, re-establishment of tidal exchange is not recommended in the Reevaluation Report/E[S released to the public in December 1983.

f. <u>Status and [mpact of Compliance with Section 404, Clean Water Act of 1977</u>: 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 Chaimette 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 West/Mandeville Unit by a Supplemental Section 404(b)(1) Evaluation Report on 18 November 1983. A Public Notice for the High Level Plan was issue on 28 March 1984, and certification from the State of Louisiana was received on 29 June 1984.

New Orleans District A CARACTERISTIC AND A CARACTERISTICA AND A CARACTERISTICA AND A CARACTERISTICA AND A CARACTERISTIC AND A CARACTERISTICA AND A LAKE PONTCHARTRAIN, LOUISIAVA, AND VICINITY and an an an and the second the second of the second second second second second and the second second second s parantanangan dipartang ing dipartang dipartang ing panang na panang na panang baratang panang panang panang pa Construction Documents Construction approach approach and the construction of the second structure of the structure of the second structure of the Authorizations and a second restricted by the total of Price Level FC Act of 1965 dated A program for protection from hurricane flood levels at New Orleans, LA \$56,235,000 (1961) 1/ 27 October 1965 (PL 89-298) and surrounding areas by means of levees, floodwalls, control structures, (HD 231/89/1) navigation structures, locks, dams and drainage structures. en al and and the second the second of the second the second of the second the second second second the second a handler i gangelen besteren alle eine som en stationer i er stationer. Water Resources Development Act A modification of the FC Act of 1965 (PL 89-298) to provide that 医治疗病 化偏子 建二磷铁 医含化 电电子 化化化化 网络美国铁 化分配子的软件子 of 1974 dated 7 March 1974 non-Federal public bodies may agree to pay the unpaid balance of (PL 93-251) Section 92 the cash payment due with interest, in yearly installments.

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 Water Resources Development Act
 A modification of the project to include construction of a floodwall
 \$ 3,500,000 (1985)

 of 1986, dated 17 November 1986
 with sluice gates or other necessary means to ensure that
 \$ 1000 protection within Jefferson Parish will be

unImpaired as a result of any pumping station constructed by local موجد دیماندر مزود ویدود کیری است میشند میشند واریکی میرو وارد میشند میشند. با آجازات کی بین میکون میری از دیکم کر بی وریک کیری کر بینور می دارید میرود می دارید میشن میزو میرو میگرین میرد

1/ This is net cost to the Federal Government. The gross cost is \$60,185,000. The difference is \$3,950,000, which is capitalized value at 3 1/8 percent interest over 100 years for 0&M on Rigolets Lock which is to be contributed by local interests and used by the Federal Government for project construction.

Monetary Authorization Full monetary authorization was provided in the Flood Control Act of 27 October 1965.

NEED FOR THE PROJECT: The project is located in southeastern Louisiana in the vicinity of Lake Pontchartrain and includes the city of New Orleans and surrounding areas. The project area is susceptible to flooding from wind-driven hurricane tides from Lake Pontchartrain, Lake Borgne, and the Guif of Mexico. Historical hurricanes have produced recorded stages up to 13 feet on the southwest shore of the lake, 6.2 feet at the south shore, 7.1 feet at the southeast shore, and 7.7 feet at the north shore. The protective works have been overtopped and developed areas flooded by surges from hurricanes several times in recent years.

In 1915, the 7.7 foot stage on the north shore and the 13 foot stage on the southwest shore caused considerable flooding.

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LAKE PONTCHARTRA [N, LA, AND V[C[N[TY

1 January 1990

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1 January 1990

New Orleans District

NEED FOR THE PROJECT: (Cont'd)

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The 1947 hurricane caused extensive flooding in Jefferson Parish when a lakeshore embankment proved inadequate to prevent overtopping, even though the stage was only about 5 feet. Considerable overtopping of the New Orleans seawall occurred during this storm and about 9 square miles of residential area were flooded.

In 1956, the New Orleans seawall was again overtopped, resulting in the flooding of about 2.5 square miles of residential and commercial area in the lakefront area.

Hurricane Betsy in September 1965, caused extensive flooding of urban areas of the New Orleans area to depths of up to 10 feet.

Hurricane Canille In August 1969, caused flooding of low lying areas adjacent to the [HNC.

Although Hurricane Carmen in September 1974, caused little flooding in the project area, it was rated by the National Weather Service as more dangerous than Hurricane Betsy. Had Carmen continued its northerly course or shifted slightly to the east, it would have passed thru the vicinity of New Orleans and would have caused extensive flooding within the project area.

al have place on a construction and construction and spontation of the physics of

Wave action during moderate to high lake stages has undermined the existing seawall at Mandeville, causing it to become ineffective as a hurricane protective structure. Second were to be a structure of the stru

On several occasions, the area between Lake Pontchartrain and Lake Borgne has been flooded by stages up to 11 feet.

Much of the developed area in New Orleans and in Jefferson Parish is below normal lake level; some land being as low as 7 feet below national geodetic vertical datum, with a considerable portion lower than 2 feet below national geodetic vertical datum. Stages attending a standard project hurricane would cause overtopping of all existing protective works by several feet and ponding as deep as 16 feet in the developed areas and the pumping system, on which removal of all flood waters is dependent, would be inoperable for an extended period of time. This prolonged inundation would cause enormous damage to private and public property, create serious hazards to life and health, disrupt business and community life, and require an immense expenditure of public and private funds for evacuation and subsequent rehabilitation of local residents.

Prior to construction of the Mississippi River-Gulf Outlet navigation project, tidal flow between Lake Pontchartrain and Lake Borgne was Interchanged through the Rigolets, Chef Menteur Pass, and the Gulf (ntracoastal Waterway-(nner Harbor Navigation Canal channel. Salinities of the Incoming tides from Lake Borgne were reduced primarily by fresh water flows from the Pearl River basin, and from the northern tributary inflow to Lake Pontchartrain. However, the Mississippi River-Gulf Outlet project now permits tidal flows from Breton Sound and the Gulf of Mexico to enter Lake Pontchartrain directly through the (nner Harbor Navigation Canal via its enlarged channel. As a result, salinities in the lake have increased significantly. Also increased current velocities in the (nner Harbor Navigation Canal caused by the Gulf Outlet navigation project have resulted in an increase in navigation difficulties and the creation of major scour problems along existing bridges and harbor developments. The restricted section through the Seabrook Bridge has enlarged greatly since construction of the Gulf Outlet project.

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PLAN OF MPROVEMENT:

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The current recommended plan for protection from hurricane flood levels consists of the following:

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a. A new levee is to be constructed parallel to and immediately north of US Highway 61, between the levee along the Jefferson-St. Charles Parish boundary and the east Bonnet Carre' Spillway guide levee.

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b. A new levee is to be constructed along the Jefferson Parish lakefront.

The provide the state of the

c. The New Orleans lakefront levee landward of the seawall is to be enlarged.

The second s

d. Enlargement of existing levees, construction of new levees, and a concrete-capped sheetpile wall are to be constructed along the east and west levees of the [nner Harbor Navigation Canal in New Orleans.

and the second of the second secon

e. A new levee and floodwall are to be constructed along the lakefront extending from the floodwall at the New Orleans Airport to South Point.

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f. The levee from South Point to the GIWW is to be enlarged.

。这是我们的意思,我们就能说了我们的问题。""你们就是我们就能能做了我们的你们,我们就能说了你的是你的是我们的是我们的人们,我们是你们的我们就是我们们,我们都是我们的一个吗?" 我们就是我们就是我们们,我就是我们不觉了,你还能能是我能够做了我们们的你们的你们的你们的你们,我们不能不是你的人们。""你们是你们们的你们是我们们们的,我们没有能

g. The levee along and north of the Mississippi River-Gulf Outlet and Gulf (ntracoastal Waterway from the (nner Harbor Navigation Canal to its intersection with the South Point to G(WW levee is to be enlarged and floodwalls constructed where necessary.

and the factor which and we are set to the set of a second of the second second and the context of

h. A new levee is to be constructed to protect the area generally referred to as the Chalmette area and will extend from the (nner Harbor Navigation Canal levee along and on the south bank of the Mississippi River-Gulf Outlet to a point approximately 2-1/2 miles northeast of Verret and then in a generally westerly direction to the Mississippi River Levee near Caernarvon.

Charles welling addressed where a second of a second size decaying a pressing that are used and the second seco

I. The existing Mandeville seawall on the north shore will be strengthened at its present height.

j. A new pumping station and vertical lift gates for the Florida Avenue Complex are under construction. This will complete the protection provided in the [nner Harbor Navigation Canal System. (See above.)

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LAKE PONTCHARTRAIN, LA, AND VICINITY

CHANGE IN SCOPE:

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New Orleans District

Year	Change in Scope si	nce Authorization		Estimated Cost
1967	The authorized alignment of protective works in the	e vicinity of Chef Ment	teur Pass was modified and the	
	New Orleans East Levee was extended to Chef Menteur Par	ss under the discretion	nary authority of the Chief of	
	Engineers to provide protection for an additional 1,53	3 acres. The letter re	eport recommending this	
	modification was submitted to OCE 28 March 1967.			\$ 4,775,600
and Network and	a and present and the set of the			
1967	The project was also modified under the discretion	ary authority of the Ch	ilef of Englneers to delete	n an
	from the Lake Pontchartrain project as a mitigating me	asure the costs of prot	tecting a portion of the	
بر	foreshore along the Mississippi River-Gulf Outlet proj	ect. Construction of 1	the Mississippi River-Gulf	
a =	Outlet project exposed levees of substantial size and	the foreshore between t	them and the project channel	
ates de la	along both banks of the project navigation canal in the	e City of New Orleans 1	to direct attack with resultant	n andre andre entre state attend to the destruction
and a Bit of some	damages from waves generated by seagoing vessels utili have included adequate provisions for protecting these	zing the waterway. The levees and their fores		name na tanàna mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia mandritra dia mandritra di Na mandritra dia mandritra d
	levees in this project located adjacent to the ship cha	annel will also require	e protection. The costs	
the set of the set	deleted from this project have been added to the Missi	ssippi River-Guif Outle	et project. (There are about 6	
an a	miles along the north bank and 18 miles along the south		a the second of the second	gaalida jee geboor oo jad
*	protection.) GDM No. 2, Supplement No. 4, Mississippi			
: ::::	submitted to OCE 29 May 1968.	ang		\$-3,495,000
1967 _{an s}	(n accordance with the desires of local interests the p authority of the Chief of Engineers to provide protect known as the Chalmette area. This change incorporated	ion to a larger area in the need to increase i	n the vicinity of New Orleans levee heights to accommodate	y persona ya 320000 perjan " "
Sec. 1	the new hurricane parameters. This modification will p		an additional 18,800 acres.	
	The letter report recommending this modification was se		Jecember 1900.	\$12,938,700
	The Director of Civil Works by letter of 27 November 19	967 Informed the Chair	non of the Committees on	
si n e	Appropriations of the House and Senate that the above of Engineers.			
	and the state of the	-		•
tante da españo de la secono Secono de la secono de la secono Secono de la secono d	The Office, Chief of Engineers, by letter report dated of an increase in cost from \$136,200,000 to \$166,000,00 "Significant Post-Authorization Changes in Corps of Eng Office of Management and Budget on 25 March 1969.	00 in accordance with E	ER 1165-2-305 dated 25 Sep 68,	A far priver (Then is a free of
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1984 The Reevaluation Study, dated July 1984, recommends the use of the High Level Plan rather than the Barrier Plan. The plan would provide for improving the existing hurricane protection levee systems in Orleans Parish and the east bank of Jefferson Parish, improving existing levees and constructing new ones in St. Bernard Parish, repairing and rehabilitating the Mandeville Seawall in St. Tammany Parish, building a new mainline hurricane levee on the east bank of St. Charles Parish immediately north of US Highway 61 (Airline Hwy), raising and strengthening the existing levee which extends along the Jefferson-St. Charles Parish boundary between Lake Pontchartrain and Airline Highway, and deferring construction of the proposed Seabrook Lock until its feasibility as a feature of the MR60 navigation project can be determined.

MAJOR CHANGES IN DESIGN:

e – <u>Televis acceleration of the R</u>odige – Jugard Ballie

a. The net grades of all the protective levees and structures, except for the levees and structures adjacent to the Chef Menteur Pass and the Rigolets, were revised upward by 1 to 2 feet in accordance with the results of tidal hydraulic studies utilizing more severe hurricane parameters developed by the U.S. Weather Bureau subsequent to project authorization.

b. A pumping plant was added to the Florida Avenue Complex to provide uninterrupted drainage relief during hurricane conditions.

c. The reevaluation of the project resulted in the recommendation for a design change from the authorized Barrier Plan of protection to a High Level Plan without barrier structures. Under the High Level Plan the design height of the levees and floodwalls proposed for the Barrier Plan would be increased to contain the lake levels that would occur without the barrier structures.

BENEF T-COST RATIO:

a. <u>Period of Economic Analysis</u>. - The economic life of the project is 100 years based on our estimate that protection from hurricane tidal overflow to this area will be needed long beyond the life of the project.

and the construction of the contract when the construction of

b. <u>Derivation of B/C Ratio</u>. - The project functions independently. Preproject levees provide the area a degree of protection from headwater and tidal overflow and no benefits are claimed for this protection. Benefits credited to the total project consist of reduction of flood damage from hurricane tidal overflow including that damage caused by overtopping existing levees.

c. <u>Composite B/C Ratio</u>.- Although the Chalmette Area Plan will function as a separable unit, the B/C ratio is presented for the total project plan. The benefit-cost ratio was derived by measuring the total benefits credited to these hurricane barrier plan components against their total costs.

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LAKE PONTCHARTRAIN. LA. AND VICINITY

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STATUS AND SCHEDULE, PLANNING:

a. Design Memorandums:

	ž	Est %	Actual (A).	Scheduled
	Complete	Comp lete	or Scheduled (S)	Award
ten	Complete 1 Jan 90	30 Sep 90	Submission Date to LMVD	Date
GDM, London Ave. Outfall Canal	100	100	14 Feb 89 (A)	e sources and the sources of the
GDM, 17th Street Outfall Canal	1 a	100 ⁰	Mar 90 (S)	
GDM, St. Charles Parish North	en Sanar e de La este a	e server e estre a company en la company estre en la company estre en la company estre en la company estre en l		
of Alrine Hwy Levee	100 100 		and the area was strong and a strong the second strong the second strong s	$\sum_{i=1}^{n} \sum_{j=1}^{n} \left\{ \left\{ f_{i} \right\}_{i=1}^{n} \in \mathbb{N} : f_{i} $
b. Plans and Specifications:			· · · · · · · · · · · · · · · · · · ·	
W ORLEANS EAST UN T				
	ne se	100 -	Apr 90 (S)	0ct 90
- 「「「「「「」」「「「」」「「「」」」「「」」」」」」」」」」」」」」」」	(4) かいしょう たいましょう パイス ひがかく こうていひょう	그는 그들을 위한 것을 위해 가슴을 가 들었다. 그는 것 같은 것은 것을 수 있는 것을 수 있다.	이 방법이 있는 것 같은 것 같	an in the second se
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EW ORLEANS WEST UN[T Alignment-North of Airline Hwy. (1st lift	H) 50 States (1)	20 juli și transt din 10 (1969) a 10 j 100		αείε) _{με} (177) . Sep 90
Alignment-North of Airline Hwy. (1st lift	100	100	Jan 90 (S)	Apr 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550	טס (ז) 100 מאליליייייייייייייייייייייייייייייייייי	100 100 100	Jan 90 (S)	Apr 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210	r) 50 100 75	100 100 100	Apr 90 (S) Jan 90 (S) Mar 90 (S)	Sep 90 Apr 90 Jul 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210	r) 50 100 75	100 100 100	Jan 90 (S)	Sep 90 Apr 90 Jul 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210	r) 50 100 75	100 100 100	Apr 90 (S) Jan 90 (S) Mar 90 (S)	Sep 90 Apr 90 Jul 90
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Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210 Jefferson Lakefront - Sta 354 to 435 / To be accomplished by local interests.	20 100 जिल्लाह 75 के	100 100 100 100 100 100 100 100 100 100	Apr 90 (S) Jan 90 (S) Mar 90 (S) Sep 90 (S)	Sep 90 Apr 90 Jul 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210 Jefferson Lakefront - Sta 354 to 435 / To be accomplished by local interests. HALMETTE UNIT	7) DU 100 12542 75 (2010) 403 403 40 200 (2010) 404 40 200 (2010) 405 407 405 405		Apr 90 (S) Jan 90 (S) Mar 90 (S) Sep 90 (S)	Sep 90 Apr 90 Jul 90
Alignment-North of Airline Hwy. (1st lift Jefferson Lakefront - Sta 438 to 550 Jefferson Lakefront - Sta 128 to 210 Jefferson Lakefront - Sta 354 to 435 ' To be accomplished by local interests. <u>ALMETTE UN[T</u> Orleans N. of Fla. Ave. Fidwl Capping	7 50 100 75 10 10 20 20	100 100 100 100 100 100 100 100	Apr 90 (S) Jan 90 (S) Mar 90 (S) Sep 90 (S)	Apr 90 Apr 90 Jul 90 Jul 91

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a.

(1) Scope, Status and Schedule of Acquisition: Acquisition of lands, easements, R/W and disposal areas is the responsibility of local Interest.

LAKE PONTCHARTRAIN, LA, AND VICINITY

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LAKE PONTCHARTRA [N, LA, AND V [C [N [TY

1 January 1990 New Orleans District

PHYS(CAL DATA: (Cont,d)

b. <u>Recreation Facilities</u>. Not applicable.

c. <u>Disposal Areas</u>. Easements for disposal areas are the responsibility of local interests.

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d. <u>Operator's Quarters</u> . None.	1947 - 1979 1944 - 1979	and and a state of the second s		an a	201002

JUST [F [CAT [ON:

a. <u>Flood Damages</u>. The duration of flooding within the project areas extends up to 2 weeks. Wind driven hurricane waters overtopping the levees become entrapped behind the levees. If the levee is seriously eroded, the water will slowly recede with the reduction in tides, but must also be pumped; if the levee remains intact, portions of it are degraded to facilitate removal of flood waters along with supplementary pumping. Depth of flooding caused by Hurricane Betsy of September 1965, varied to a maximum of approximately 10 feet in urban areas; this storm is also considered the flood of record.

12 - ES

The project is designed to protect against a hurricane with a frequency of about once in 250 years. The 1965 hurricane approached the design hurricane in magnitude in part of the area. The high order protection was selected because of the urban character of much of the region and the hazard to life.

Description of Flood Area	Design Flood 1/	Works Against Design Flood	a an
Number of Acres:	(501,780)	(501,780)	
Residential	33,530	33,530	
Commercial, Industrial	14,510	14,510	
Open Land ([dle)	28,760	28,760	
Woods, Swamp, Marsh	414,010	414,010	an ease an ease generation of the second
Other Developed Land	10,970	4 A A A A A A A A A A A A A A A A A A A	- an such what for
Value of Lands and Improvements	(23, 303, 000, 000) 2/		- Mariana (Sangara)
	7,615,000,000	7,615,000,000	e san we get the feature
Improvements	15,688,000,000	15,688,000,000	en en sen en e
Population (1980)	anya daga sa ji sana ina wangana da sa gana na sakanati ina da na na na na na na tata ta na na na na na na na n Na	and the second	n ya taanina jaranga dalapat kana tertementa satu.
Residing	815,000		
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Working (Addition to Residing) and account and 80,000

1/ Based on theoretical design flood which has yet to be experienced.

- 2/ Escalated to October 1989 price levels.
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LAKE PONTCHARTRAIN, LA, AND VICINITY

1 January 1990 New Orleans District

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b. Flood History. Legend: Actual Acres Flooded =(c)-(e); Actual \$ Damages = (f)-(h); N.O.= Not Operable.

	Area (Ac	res)	in the grade of the		والرابع فالإسلام والمستحر لأنبح	Damages (Dollars)	
Flood Natural Date Stage	Flooded Without Project	Protected With Project In Full Operation	Protected : at Time : of : Flood :	Without Project	Preventable at Time of Flooding With Project in Full Operation	Prevented at time	Preventable Under Present Condition with Project in Full Operation
(a) (b) A) Past 5 Fiscal Years		(d)	250260 (Q) 250 20248 (2447) 1880	\$ (f)	\$ %81840 (g) 20180 201809 0401336	չու է (h)	\$ (1) <u>2</u> /
ct 1985 Juan)	105,190	105,190	99,900	5,818,000,000	5,818,000,000	5,527,000,000	6,275,000,000
n 11 ann an 184	to 5 Elecal	Yearce		•			
B) Major Floods Prior ug 1969	un persona de la servici Al constante de la servici	na ha shini na si	genalis y di saakke in girji.	n - Sandar Al Marian - San San	mine and a constant a	land - Star Star St	ನ ಎಂದು ಈ ಪಡೆದುಕಾಡಿದ್ದಾನ ನಿರ್ದಾಮ ನ ಎಂದು ಯು. ಪೊಸ್ ನಿಕ್ರಿಕ್ಕೆಯ ಹಾಗ
B) Major Floods Prior ug 1969 Camille) <u>1/</u>	to 5 Fiscal 23,000		22,000	92 , 500,000	91,500,000	90,000,000	ನ ೧೯೮೫ ಕ್ಷೇತ್ರ ಕರಿಸಿದರಿ ನಿರಿಷೆ ಕ್ಷೇತ್ರ ನಿ 357,800,000
B) Major Floods Prior ug 1969 Camilie) <u>1/</u> ep 1965 Betsy) <u>1/</u>	23,000 23,000	23,000 23,000	2002	92,500,000 85,000,000	91,500,000 85,000,000	۲۵۵۵ کاری میں 90,000,000 ۲۰۰۰ میں میں دور ۲۰۰۰ میں میں میں دور	101300 (* 1860.02000) (166 (* 357,800,000 (* 1860.17 (* 186 (* 186) (* 1975) 467,800,000 (* 196
B) Major Floods Prior ug 1969 Camille) <u>1/</u> ep 1965 Betsy) <u>1/</u> ep 1956	23,000 23,000	स्वयंत्रः आवस् स्वयुः ्व 23,000 यय् द्वर्थाय्यसम्बद्धाः स	2002	92,500,000 85,000,000	91,500,000 85,000,000	د د باید و مردی ایرین ایرینی ایرینی 90,000,000 به محمد می مردی د ه د محمد می می می می	2013009 50000000000000000000000000000000000
B) Major Floods Prior ug 1969 Camilie) <u>1/</u> ep 1965 Betsy) <u>1/</u> ep 1956 Flossy) <u>1/</u>	23,000 23,000	23,000 23,000	2002	92,500,000 85,000,000	91,500,000 85,000,000	د د باید و مردی ایرین ایرینی ایرینی 90,000,000 به محمد می مردی د ه د محمد می می می می	357,800,000
 B) Major Floods Prior ug 1969 Camille) <u>1/</u> ep 1965 Betsy) <u>1/</u> ep 1956 Flossy) <u>1/</u> ep 1947 <u>1/</u> / <u>HIGHEST RECORDED STA</u> 	23,000 23,000 8,000 33,000 <u>GE (N.G.V.D.</u>	23,000 23,000 8,000 33,000	22,000 22,000 2800 (1970) - 1990 2900 (1970) - 1990 2000 (1970) - 1990 (1970) - 1990 2000 (1970) - 1990 (1970) - 1990 2000 (1970) - 19900 (1970) - 1990 (1970) - 1990 (1970) - 19900 (1970) - 1990 (1970) - 1990 (1970) - 1990 (1970) - 19900 (1970)	92,500,000 85,000,000 750,000 5,300,000	91,500,000 85,000,000 750,000 5,300,000	40	357,800,000
B) Major Floods Prior ug 1969 Camille) <u>1/</u> ep 1965 Betsy) <u>1/</u> ep 1956 Flossy) <u>1/</u> ep 1947 <u>1/</u> / <u>HIGHEST RECORDED STA</u>	23,000 23,000 8,000 33,000 GE (N.G.V.D.	23,000 23,000 8,000 33,000	22,000 22,000 2001 (2015) 2016 (2015) 2017 (2016) 2017	92,500,000 85,000,000 750,000 5,300,000 969 <u>Sep 196</u>	91,500,000 85,000,000 750,000 5,300,000 55 <u>Sep 1956</u>	90,000,000 90,000,000 20 80 80 80 80 80 84 80 80 80 80 84 80 80 80 84 80 80 84 80 80	357,800,000
 (B) Major Floods Prior Aug 1969 Camille) <u>1</u>/ Sep 1965 (Betsy) <u>1</u>/ Sep 1956 (Flossy) <u>1</u>/ Sep 1947 <u>1</u>/ <u>1/GHEST RECORDED STA</u> 	23,000 23,000 8,000 33,000 GE (N.G.V.D. th West End	23,000 23,000 8,000 33,000 <u>0 ct 190</u> 6.1 f	22,000 22,000 N•0- N•	92,500,000 85,000,000 750,000 5,300,000 969 <u>Sep 196</u> ft+ 7.6 ft	91,500,000 85,000,000 750,000 5,300,000 55 <u>Sep 1956</u>	40	357,800,000

c. Power. Not applicable.

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1 January 1990

New Orleans District

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a. Requirements. Prior to construction, local interests furnished assurances satisfactory to the Secretary of the Army that they will, without cost to the United States:

💭 - An and an and an and a state of the second of the second s (1) Provide all lands, easements and rights-of-way, including borrow and spoil disposal areas, necessary for construction of the project;

(2) Accomplish all necessary alterations and relocations to roads, railroads, pipelines, cables, wharves, drainage structures, and other facilities made necessary by the construction works;

大的 - 这些特别的问题说:"她说她儿姐那说这个话儿的话道,她们让你说过这个话来,这些你的吗?""我说了你你们让我说了!"这个说了这一**都**说道:"你你说我的那些我们^我,我都是你是个^{我们}的,你不能了,你就是你,

(3) Hold and save the United States free from damages due to the construction works;

(4) Bear 30 percent of the first cost, a sum presently estimated at \$166,000,000, to consist of \$55,765,000 for items listed in subpararagraphs (1) and (2) above, and a cash contribution presently estimated at \$110,235,000 to be paid either in a lump sum prior to initiation of construction or in installments at least annually in proportion to the federal appropriation prior to start of pertinent work items in accordance with construction schedules, as required by the Chief of Engineers, or, as a substitute for any part of the cash contribution, accomplish, in accordance with approved construction schedule, items of work of equivalent value as determined by the Chief of Engineers, the final apportionment of costs to be made after actual costs and values have been determined. The contractor the construction of any or the costs light destances in the destances of the destances

(5) Provide all interior drainage and pumping plants required for reclamation and development of the protected areas;

(6). Maintain and operate all features of the works in accordance with regulations prescribed by the Secretary of the Army, including levees, floodgates and approach channels, drainage structures, drainage ditches or canais, floodwalls, seawalls, and stoplog structures, but excluding the Rigolets navigation lock and channel and modified dual-purpose Seabrook Lock; and the Average serves the serves and the serves of the serves intervention of the serves of

(7) Acquire adequate easements or other interest in land to prevent encroachment on existing ponding areas unless substitute storage capacity or equivalent pumping capacity is provided promptly. Local interests are also required to comply with the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (PL 91-646). In acquiring real property.

- 1/ The total non-Eederal contribution including future reimbursement is determined as follows: prove service and particular an Land and Relocations (\$55,765,000) + Cash/Equivalent Work Contribution (\$110,235,000) + Future Reimbursement (\$11,000,000) = (\$177,000,000).
- b. Modification to Authorizing Law. Recognizing the increasing burden of providing required matching local funds, the former Representative F. Edward Hebert sponsored Congressional legislation to defer required local payments over an extended period of time. This legislation was enacted in February 1974, as Section 92 of the Water Resources Development Act of 1974. This act modifies the authorizing law by providing that non-Federal public bodies may agree to pay the unpaid balance of their required cash payment due, with interest, in annual installments in accordance with a formula specified by the Act.

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LOCAL COOPERATION: (Cont'd)

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a sector and a constant of the constant of the sector of the d. Current Status of Assurances. Assurances are required for the two independently justified plans authorized by Congress; the Chalmette Area Plan and the Lake Pontchartrain High Level Plan. Supplemental assurances for the High Level Plan were executed by the Pontchartrain Levee District for the St. Charles Parish portion of the project on 7 August 1987.

(1) Chaimette Area Plan: The basic assurances for this plan have been accepted.

(a) Joint assurances of the St. Bernard Parish Police Jury and the Lake Borgne Basin Levee District were accepted on 28 September 1966. The Lake Borgne Basin Levee District and St. Bernard Parish Police Jury executed a new joint agreement of assurance covering all requirements of local cooperation and a deferred payment plan as authorized by PL 93-251 on 20 April 1976. These assurances were approved on behalf of the United States on 7 December 1977.

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(b) Assurances from the Board of Commissioners of the Orleans Levee District were accepted on 10 October 1966. The assurances were amended on 16 September 1971 to reflect an increase in cost participation. These amended assurances, which supersede the 10 October 1966 assurances, were approved on behalf of the United States on 29 March 1974. The original assurances from the Orleans Levee District dated 10 October 1966, are considered in full effect. This 1966 assurance (for Chalmette Plan only) was supplemented to included PL 91-646 on 29 May 1975, and approved on behalf of the United States on 8 July 1975. The Orleans Levee District executed a new agreement of assurances covering all requirements of local cooperation and a deferred payment plan as authorized by PL 93-251 on 30 March 1976. These assurances were approved 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.

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(c) Supplemental assurances providing for Public Law 91-646: The Louisiana Office of Public Works, coordinating agency under 5 March 1971 designation by the Governor, was requested to have the St. Bernard Parish Police Jury and the Lake Borgne Levee District execute such supplemental assurances. A joint supplemental assurance dated 26 February 1975, was received from the agencies and approved on behalf of the United States on 17 March 1975.

na sin sing anganana ang sing palaka sing pinal palan nat masa sing dalah mananana sa panahanga da 400 (singka) 🕚 (2) Lake Pontchartrain Barrier Plan. Basic assurances for the plan were obtained from the Board of Commissioners of the Orleans Levee District and accepted on 10 October 1966.

1. 1943年1月1月1日(1月1日),1月1日(1月1日)):1月1日(1月1日):1月1日),1月1日(1月1日),1月1日)(1月1日)(1月1日):1月1日):1月1日):1月1日(1月1日) (a) The Orleans Levee District requested assistance in carrying out the assurances due to the rising non-Federal cost of participation and the widespread benefits to be derived by the surrounding parishes. The Governor of the State of Louisiana, by Executive order (5 March 1971). designated the Louisiana Office of Public Works as the local coordinating agency. Through this procedure, the Pontchartrain Levee District, the St. Tammany Parish Police Jury, and the Orleans Levee District are the assurers for the Barrier Plan. See b below.

> HOMEN NEWS LAKE PONTCHARTRAIN, LA, AND VICINITY

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LOCAL COOPERATION: (Cont'd)

LAKE PONTCHARTRAIN, LA, AND VICINITY

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d. Current Status of Assurances. (Cont'd)

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(b) Amended assurances to provide for an increase in cost participation were executed by the Orleans Levee District on 16 September 1971, and approved on behalf of the United States on 29 March 1974. The amended assurances supersede the 10 October 1966 assurances. Subsequent to the approval of the 1971 assurance, it became evident that problems existed in obtaining acceptable assurances from two agencies for this plan. For this reason, the original assurances from the Orleans Levee District dated 10 October 1966, are considered in full effect. The Orleans Levee District executed a new agreement of assurance covering all requirements of local cooperation and deferred payment plan as authorized by PL 93-251 on 30 March 1976. These assurances were approved on behalf of the United States on 7 December 1977.

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"最终,这些你们就<mark>算</mark>着,我们们就是你的,我们就是你们的,你不是你的,你不是你的,我们们就是你们的。"

(c) Assurances providing for participation pursuant to the action of the Governor have been obtained from the Pontchartrain Levee District. Assurances on behalf of the St. Tammany Parish Police Jury were executed by the Governor on 8 May 1972, under Section 81, Title 38, Louisiana Revised Statutes of 1950 as amended. Neither of the last mentioned assurances has been accepted for lack of supporting documents. However, the Pontchartrain Levee District executed a new agreement of assurance covering all requirements of local cooperation and a deferred payment plan as authorized by PL 93-251 on 20 September 1976. On 19 October 1976, the Governor of the State of Louisiana executed an instrument designating, among other things, the Louisiana Office of Public Works to lend financial assistance in connection with this project. 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; and to lend financial assistance after the Pontchartrain Levee District has contributed \$100,000 in cash toward that portion of the Barrier Plan which is the responsibility of that levee district. These assurances were approved on behalf of the United States on 7 December 1977.

(d) Supplemental assurances covering Public Law 91-646:

- 1. Supplemental assurances were executed by the Orleans Levee District on 21 September 1973.
- 2. Supplemental assurances were executed by Pontchartrain Levee District on 15 October 1973.
- 3. St. Tammany Parish Police Jury--the assurances executed by the Governor on 8 May 1972 included Public Law 91-646 requirements.

The assurances listed as items 2 and 3 above have not been accepted on behalf of the Government due to lack of supporting data; however, substitute assurances incorporating the deferred payment plan authorized by PL 93-251 and PL 91-646 have been executed by these levee districts. These assurances were approved on behalf of the United States on 7 December 1977.

The Water Resources Development Act of 1974, PL 93-251, was enacted on 7 March 1974. This act provided among other things, that local assuring agencies for this project (both plans) could, if they so choose, repay their cash obligation using a deferred payment plan. New assurances were executed by local interests incorporating a deferred payment plan in 1976, and these assurances were approved by the Secretary of the Army on 7 December 1977. Local interests have been making payments under this plan. First payments were received in FY 1977.

I January 1990 New Orleans District

LOCAL COOPERATION: (Cont'd)

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d• Current Status of Assurances• (Cont'd)

(3) High Level Plan:

(a) Orleans Levee District: For the Barrier Plan, new agreements of assurances covering all local cooperation requirements and a deferred payment plan as authorized by the Water Resources Development Act of 1974, 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.

(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 the Water Resources Development Act of 1974 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. Supplemental assurances for the High Level Plan were executed by the Pontchartrain Levee District for the St. Charles Parish portion of the project on 20 April 1987, and accepted on behalf of the United States on 7 August 1987.

(d) East Jefferson Levee District: Supplemental assurances for the High Level Plan were executed by the East Jefferson Levee District for the Jefferson Parish portion of the project on 16 January 1987, a financial plan was submitted on 24 November 1987, and the supplemental assurances were accepted on behalf of the United States on 21 December 1987. These levees were previously the responsibility of the Pontchartrain Levee District.

(e) <u>Action Being Taken by Local Interests Toward Compliance</u>. Local Interests have cooperated in all efforts to date and have given assurance that all requests for additional cooperation will be expedited; however, local interests have delayed granting of rights-of-way as scheduled on certain items. They are constructing items of flood protection works at vulnerable locations as work-in-kind in lieu of cash contribution. Local interests will be given credit only for the portion meeting project requirements.

(f) <u>Status of Clearances for Relocations or Other Negotiations Affecting Construction</u>. All negotiations for relocations are the responsibility of local interests. All negotiations with local owners are on schedule.

e. Repayment Contracts. Not applicable.

f. Other Current and Anticipated Difficulties, and Proposed Remedial Action. As of 1 January 1979, the State of Louisiana formed the Jefferson Levee District and assigned to it the responsibility for Jefferson Parish levees on the east bank of the Mississippi River. These levees were previously the responsibility of the Pontchartrain Levee District.

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LAKE PONTCHARTRAIN, LA, AND VICINITY

LAKE PONTCHARTRAIN, LA, AND VICINITY

LOCAL COOPERATION: (Cont'd)

SUPPORT AND OPPOSITION:

a. Interested Senators and Representatives, and Nature and Extent of Support or Opposition.

Senator J. Bennett Johnston - supportRepresentative Robert L. Livingston, Jr. (1st Dist) - supportSenator John B. Breaux - not knownRepresentative Richard Baker (6th Dist) - not knownRepresentative Lindy Boggs (2nd Dist) - supportRepresentative Billy Tauzin (3rd Dist) - not known

b. <u>Support or Opposition by Local Interests</u>. The Louisiana Office of Public Works, the agency designated to act in such matters in behalf of the Governor of the State of Louisiana, the Board of Levee Commissioners of the Orleans Levee District and the Board of Commissioners of the Port of New Orleans have concurred with the proposed plan of protection and are assisting in the implentation of the authorized plan. The U. S. Fish and Wildlife Service has been consulted on all aspects of the project and will continue in coordinating future features of the project.

c. <u>Attitude of Affected Property Owners</u>. Most property owners support the plan of protection although some minor opposition to specific features of the plan has been encountered.

d. <u>Adverse Effects</u>. Approximately 2,100 acres of marsh and swamp wetland and 900 acres of lake bottom will be used for construction of the hurricane protection plan. Loss of this habitat will cause a decrease in wildlife and fisheries in the Lake Pontchartrain area.

Turbid water conditions with associated silting due to dredging, pumping, and levee construction will occur only during construction periods. Temporary turbid water conditions during construction will decrease the amount of primary production in the disturbed area by decreasing the light available to phytoplankton and other aquatic plants.

LAKE PONTCHARTRA [N, LA, AND V [C [N [TY

1 January 1990 New Orleans District

ENV[RONMENTAL [NFORMAT[ON: (Cont'd)

c. Environmental Opposition: (Cont'd)

(2) Environmental opposition to the High Level Plan centers on two major issues. Fourteen groups have expressed concern over the proposal to locate borrow pits in Lake Pontchartrain near the Jefferson Parish Lakefront. Possible adverse water quality impacts are the primary concern. Eleven of these groups have expressed opposition to the enclosure of wetlands by the hurricane protection levee in New Orleans East. Four groups also oppose the levee alignment in St. Charles Parish because the levee would enclose a wetland and may subject it to development in the future. To date, there are no court injunctions filed against this plan.

d. Other Environmental Opinions:

(1) The US Fish and Wildlife Service and the National Marine Fisheries Services have fully cooperated in developing a plan for hurricane protection for the metropolitan area of New Orleans that will alleviate, to the fullest extent feasible, any project impacts on the fish and wildlife resources in the area. Both have opposed the St. Charles Parish lakefront levee and have made specific recommendations in the other segments of the project to help minimize the destructive features of the project.

(2) The Environmental Protection Agency has also fully cooperated in helping us to develop an environmentally feasible plan. In their review of the statement of findings for the plans for placement of dredged material for this project they stated that tidal interchange should be allowed in the New Orleans East area until developed areas are threatened.

e. Environmental Studies:

(1) Phase [of the biological transport studies contract entered into with the Louisiana State University along with a preliminary Phase [[scope study based on Phase [data have been completed. The remaining portions of the contract have been terminated at the request of LMVD due to the preference for the High Level Plan.

(2) The EPA, in their review of the 404 proceedings, have requested us to study whether the drainage structures in the South Point to G[WW levee can be changed with regard to their operation. They would like to see the structures remain open during normal tidal conditions to nourish the marsh in New Orleans East with the lake water. The Louisiana Wildlife Federation and the U.S. Fish and Wildlife Service are supportive of this recommendation. We coordinated this request with the Orleans Levee District, the Sewerage and Water Board, the Mosquito Control Board, and the City Planning Commission and found extensive opposition. As a result of this opposition and since Fish & Wildlife Management is not an authorized federal program purpose, re-establishment of tidal exchange is not recommended in the Reevaluation Report/E[S released to the public in December 1983.

f. <u>Status and [mpact of Compliance with Section 404, Clean Water Act of 1977</u>: 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 West/Mandeville Unit by a Supplemental Section 404(b)(1) Evaluation Report on 18 November 1983. A Public Notice for the High Level Plan was issue on 28 March 1984, and certification from the State of Louisiana was received on 29 June 1984.