AFFEOPRIATION TITLE: Construction, General - Local Projection Projects (Flood Control)

PROJECT: Lake Fontchartrain and Vicinity, Louislana (Surricase Protection) (Continuing)

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

AUTHORIZATION: 1965 Flood Control Act		BENEFIT-COST RA	MT10: 11.5 to	1
SUMMARIZED FINANCIAL DATA	Accumulated % of Est. Fed. Cost	STATUS (1 January 1972)	PERCENT COMPLETE	COMPLETION ENCEROS
Estimated Federal Cost Estimated Non-Federal Cost	\$178,000,000 77,000,000 1/2/	Locks	0	Sep. 1976
Cash Contribution \$47,259,000 1/	,000,000 <u>1</u> 11	Roads Channels and Canals	o	June 1977 June 1977
Other Costs 29,741,000 Total Estimated Project Cost	\$255,000,000	Levess and Floodwalls:	14	
Allocations to 30 June 1971	31,793,000	New Orleans East Unit New Orleans West Unit	17 0	Dec. 1981 Dec. 1981
Allocation for PY 1972	10,946,000	Mandeville Unit Chalmette Unit	0 19	June 1975 June 1978
Allocations to Date Appropriations Requested for FY (973)	42,739,000 24 20,000,000 35	Flood Control & Diversion		
Balance to Complete after FY 1973	\$115,261,000	Structures	0	June 1976

<sup>1/</sup> Includes \$3,816,000 capitalized cost of OSM for Rigolets Lock.

Entire Project

Dec. 1981

18

Balance to Complete after FY 1973

<sup>2/</sup> In addition, local interests, through the combined efforts of the State of Louisiana, local levee and drainage districts and parish police juries have spent, through the years, an estimated \$25,000,000 to effectuate and maintain the hurricane protection systems existing prior to project authorization.

## PHYSICAL DATA

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Levess: Average Height - 13 feet
                                                              Channels:
                                                                                   Size
12 ft. by 125 ft.
                                                                                                             Length (Mi.)
         Langth - 74 miles
                                                                GIWW Relocation
Drainage Structures: St. Charles Parish-544 ft. wide with
                                                                Chef Menteur Nav-
                     eight 5.0 ft. high by 9.0 ft. wide
                                                                 igation Channel 12 ft. by 125 ft.
                     combination flap & vertical lift gates.
                                                                Chef Menteur
                                                                                    Depth: -25 ft.@ structure
                                                                                                                 2.1
                    Sill elevation -5.5 m.s.l.
                                                                 Approach Channel
                                                                                    Width: 400 ft.@ structure
                     St. Bernard Parish-two 72 in. dia. CMP
                                                                Rigolets Approach
                                                                                    Depth: -30 ft.@ structure
                     culverts with flap and vertical slide
                                                                 Channel
                                                                                    Width: 800 ft.@ structure
                                                                                                                 1.0
                    gates.
                                                                Rigolets Naviga-
Channels:
                                                                 tion Channel
                                                                                    14 ft. by 100 ft.
                                                                                                                 0.9
  Bayou Bienvenue Navigation Channel 10 ft.by 125 ft. 0.5
 Bayou Dupre Navigation Channel
                                     10 ft.by 125 ft. 0.2
Floodgates: Chef Menteur - Sector-Gated - 84 ft.wide
                                                              Control Structures:
            Bayou Bienvenue - Sector-Gated - 56 ft.wide
                                                              Chef Menteur - 1,200 ft. total width structure; Sill El,
             Bayou Dupre - Sector-Gated - 56 ft. wide
                                                               -25 ft., 8 Gate Bays, Vertical Lift Steel Gates, 14 ft.
Locks: Seabrook - 84 ft. by 800 ft.Chamber, Sector-Gated
                                                                by 46 ft. each.
       Rigolets - 84 ft. by 800 ft. Chamber, Sector-Gated
                                                              Rigolets - 1,100 ft. total width structure; Sill El.
Dam Closures: Bayou Bienvenue - Barthen - 500 ft. long
                                                                -30 ft. 16 Gate Bays, Vertical Lift Steel Gates, 3
              Bayou Dupre - Earthen
                                     - 500 ft. long
                                                                stacked per bay, 11.5 ft. by 46 ft. each.
              Bayou Villere - Earthen - 500 ft. long
                                                              Seabrook - 116 ft. total width structure; Sill El. -15.8
              Pipeline Canal - Barthen - 200 ft. long
                                                                ft.; 3 Gate Bays, Vertical Lift Steel Gates, 20 ft. by
              Seabrook - Rock
                                        - 1040 ft. long
                                                                32 ft. each.
              Chef Menteur - Earthen
                                        - 1600 ft. long
                                                              Floodwalls:
              Rigolets - Earthen
                                        - 3000 ft. long
                                                                                   - I and/or T type wall - 170 ft.long
                                                              Rigolets
              GIWW Bast - Barthen
                                        - 500 ft. long
                                                              Chef Menteur
                                                                                   - I and/or T type wall - 590 ft.long
              GIWW West - Earthen
                                           700 ft. long
                                                                                   - I and/or T type wall - 320 ft.long
                                                              Bayou Dupre
Railroad Gate Structures:
                                                              Bayou Bienvenue
                                                                                   - I and/or T type wall - 375 ft.long
New Orleans East Unit:
                                                              Verret Highway No. 46- I and/or T type wall - 255 ft.long
 Southern Railway at Seabrook, New Orleans East, IHNC West
                                                              Caernarvon Hwy.No. 39- I and/or I type wall - 275 ft.long
 Southern Railway at Seabrook, Citrus Area, IHNC East
                                                              Inner Harbor Navigation
 Louisville and Nashville RR, New Orleans East, IHNC West
                                                                Canal, Westside - I and/or T type wall - 5.8 miles
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LAKE PONTCHARTRAIN AND VICINITY, LOUISIANA

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Resilvond Gate Structures: (Cont'd) New Orleans Bask Onit: (Cont'd)

Louisville and Nashville RR, Citrus Area, IHNC East Southern Railway at Florida Avenue, New Orleans East.

Southern Railway at Florida Avenue, New Orleans E HINC West

Southern Railway at Florida Avenue, Chalmette. IHNC Rast Ploodwalls: (Cont'd)
Inner Harbor Navigation
Canal, Bastside - I and/or T type wall - 4.1 miles
Citrus Back Levee - I and/or T type wall - 3.2 miles

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 recent past. Hurricane damages result from surges entering Lake Pontchartrain from Lake Borque through natural tidal passes at the Rigolets and Chef Menteur Pass and through improved channels of the Mississippi River-Gulf Outlet and Inner Harbor Navigation Canal. The surges are intensified by local wind effects and the combination of waves and surges causes 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 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 endangered, and hazards to health 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. The Lake Pontchartrain hurricane protection project will provide the necessary protection. The Mississippi River-Gulf Outlet (MR-GO) via the Inner Harbor Navigation Canal (IHNC) provides a direct tidal route from the Gulf of Mexico to Lake Pontchartrain. Consistent with the rationale that lake levels can be controlled by limiting tidal inflow to the lake, a lock and control structure complex is to be constructed at the junction of the IHNC and Lake Pontchartrain at Seabrook. The complex will provide the multi-purposes of flood control, salinity control, and navigational benefit. The cost of the Seabrook Complex is allocated 50% to the hurricane protection project and 50% to the MR-GO project.

The average annual benefits, all flood control, are estimated at \$117,296,300.

LAKE PONTCHARTRAIN AND VICINITY, LOUISIANA

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## FISCAL YEAR 1973: The requested amount of \$20,000,000 will be applied to:

Initiate: New Orleans East Unit	
N. O. East Lakefront Levee (Paris Road to South Point) 1st lift levee Chef Menteur Barrier Control Structure Rigolets Barrier Control Structure	\$ 800,000 300,000 400,000
Initiate and Complete: New Orleans East Unit	1
Citrus Back Leves, Station 176 to 196, 1st lift leves N. O. East Back Leves, Station 874 to 882, floodwall	10,000 400,000
Continue:	
New Orleans East Unit	
New Orleans East Back Leves, Station 775 to 1007, 1st lift levee	2,100,000
One: Manteur Barrier, East and West, let lift leves	1,900,000
Fogolets Barrier, North, 1st lift laves	1,190,000
New Griesus West Chit	• •
St. Charles Levse, Station 0 to 121, 1st lift levee	1,500,000
St. Charles Levee, Station 129 to 294. 1st lift levee	1,400,000
Chalmette Unit	
Sayou Sienvenue Control Structure Bayou Dugre Control Structure	1,400,000
Series 179 to 75	400,000
Station 370 to 775, not continuous, 26 lift levee and Pipeline Canal Closure, 2d lift	
Warrenson was a war and a war and a war and a war a	100,000
Engineering and Design	1 200 000
Supervision and Administration	1,200,000
	1,300,000

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## New Orleans Bast Unit INC, West Station 206 to 238, floodwall \$ 350,000 Citrus Back Levee, Station 196 to 582, 2d lift levee 690,000 Citrus Back Levee, Station 582 to 665, floodwall 485,000 New Orleans East Back Leves, Station 665 to 775, floodwall 1,700,000 Rigolets Barrier, South, 1st lift levee 575,000 Chalmette Unit Vicinity Paris Road Bridge, floodwall 70,000 Verret to Caernarvon, Station 1121 to 1560, 1st lift levee 1,730,000 Total \$20,000,000

The funds requested for Fiscal Year 1973 are required to meet the scheduled completion date.

NON-FERENAL COSTS: Local interests are to bear 30% of the first cost to consist of the fair market value of all lands, easements, and rights-of-way, including borrow and spoil 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. They are required to share in only 1/2 the cost of Seabrook Lock; the other half being constructed for navigation purposes at Federal expense. In addition, local interests are required to contribute the capitalized cost of operation and maintenance for Rigolets Lock. The current estimate of project costs to be borne by local interests follows:

Lands and Damages Helocations Cash Contributions:	\$25,153,000 4,588,000
Based on 30% of total project cost less Seabrook Lock Based on 15/85 ratio for Seabrook Lock Capitalization of ORM for Rigolets Lock	40,305,000 3,138,000 3,816,000
Total	\$77,000,000

LAKE PONTCHARTRAIN AND VICINITY, LOUISIANA

31 JAN 1972

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Local interests are required to operate and maintain all features of the project works, excluding the Rigolets Navigation Lock and channel and modified dual-purpose Seabrook Lock. The annual cost to local interests for maintenance and operation is estimated at \$299,000 and material replacements \$167,600; a total of \$466,600.

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

Combination of State of Louisiana Lake Borgne Levee District and Chalmette	1
Back Leves District on the Chalmetts Back Leves 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
Pourth Drainage District of Jefferson Parish	3,000,000

A very severe hurricane, "Betsy," occurred in the project area in Saptember 1965 just prior to 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 will be accepted by the United States as work-in-kind in lieu of cash contribution.

Forticese "Compile" communed in the project area in August 1969 and flooded areas along the Inner Harbor Navigation Canal.

STATUS OF LOCAL COOPERATION: Formal request for assurances for the Barrier Plan was made by the Federal Government on 27 July 1966 and furnished by the Board of Commissioners of the Orleans Levee District on 28 July 1966. By executive order dated 5 March 1971, the Governor of the State of Louisiana designated the Louisiana Department of Public Works as the local coordinator for the Barrier Plan. Full assurances for the Barrier Plan have not yet been forwarded to the Government by that agency. Formal assurances for the Chalmette Area Plan and its médification were requested on 8 February 1966 and 6 June 1967, respectively, and were furnished jointly by the 5t. Bernard Parish Police Jury and the Board of Commissioners of the Lake Boryne Lawee District on 16 August 1966 and 6 July 1967, respectively.

COMPARISON OF FEDERAL COST ESTIMATES: No change from the previous estimate (\$178,000,000) presented to Congress in connection with the Supplemental Appropriations Act, 1972.

\$25,366,000

APPROPRIATION TIT	TLE: CONSTRUCTION GENERAL	CLAS	SIFICATION			
111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				CTION (PLOOD	CONTROL PROJE	CT)
	SUMMAR	EY CONSTRUCTION FISCAL YEARS 1972		(PB-1)		
****	(SEM	PROJECT COST ESTIMATE	TOTAL TO 30 JUNE 19:71.	CURRENT FISCAL YEAR 19.72.	FISCAL YEAR 19.73.	BALANCE YOU COMPLETE, AFTER FY 15
	(1)	(2)	(3)	(4)	(5)	(6)
TOTAL PROJEC	77					
IANDS AND DA		25.153.000	12,246,000	4,577,000	1,909,000	6,421,00
BELOCATIONS		4,588,000	2,950,000	242,000	455,000	941,00
LOCKS		21,825,000		9		21,825,00
ROADS		30,000				30,00
CHANNELS AND	CANALS	3,100,000		770,000		2,330,00
	AND SRAWALIS	1,750,000				1,750,00
LEVEES AND E		139.715.0001	18,787,500	16,130,000	22,925,000	81,872,50
	N. & DIVERSION STRUCTURES	29,690,000			700,000	28,990,00
	TRATING POULFMENT	10,000	2,400			7,60
ENGINEER ING		17,050,000	6,590,600	1.800.000	1.216.000	7.143.40
	AND AIMINISTRATION	12,089,000	1,751,600	1.326.000	1,300,000	7.701.40
	D COST [C of E & Non-Ped.]	255,000,000	42,328,100	24,845,000	28,505,000	159,321,9
	rted Cost (Mone)			SU 91.5 202	00 FDF 000	100 500 0
	T COST (C of E & Non-Fed.)	255,000,000	42,328,100	24,845,000	28,505,000	159,321,90
	<u> Liustments (Sone)</u>	1 222 222	70.000.00	24,845,000	28,505,000	159,321,90
	C of E & Mon-Fud.)	255,000,000	42,328,100		20,202,000	1723-257
Undalivers			+6,079,100	-6,079,100 18,765,900	28,505,000	
TOTAL OSLICA	I DURS		48,407,200	10,702,900	20,303,000	159,321,9
CCEPS OF ENG	TNEERS FURDS					<u> </u>
LOCKS	***************************************	14,837,000			THE STATE OF THE PARTY OF THE P	14,837,00
ROADS		24,000		******		24,00
CHAMMELS AND		2,509,000		770,000		1,739,00
BREAKWATERS .	AND SEAWALLS	1,489,000				1.489.00
LEVERS AND F	LOQUEALLS	111,504,000	14,498,300	16,130,000	16,800,000	64,075,70
FLOOD CONTRO	L AND DIVERSION STRUCTURES	24,175,000	······································		700.000	23,475,00
	ERATING NULLMEST	9,000	2,400			6,60
ENGINEERING	AND DESIGN	13.699.000	6 502 800	1,800,000	1,200,000	4,196,20
SUFERVISION .	AND ADMINISTRATION	9.754.000	1.709.600	1,325,000	1,300,000	5,418,40
FFECTIVE DATE  1 JAN 72	CHYISION LOWER MISS. VALLEY	ESION LOWER MISS		LAKE FORT	CHARTRAIN & V	· · · · · · · · · · · · · · · · · · ·
	DISTRICT NEW ORLEANS	ASS COMBUNE IN	ELTSTAWA.		E PROTECTION)	•

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PREVIOUS EDITION IS OBSOLETE 91 JAN 1772

	FISCAL YEARS 19.7%	SUMMARY CONSTRUCTION PROGRAM (PB-1) FISCAL YZAWS 19.22, AND 18.23.	(PB~1)		
XXV	PROJUNCT COST 85 THRATE	TOTAL TO	CUPRENT FISCAL YEAR M. 7.8	BUTSET TO FEET	COMPLETE 73
(1)	63	(0)	9	133	8
TOTAL APPLIED COST (C of B Punks Orly)	178,000,000	22,713,100	30,026,000	30,000,000	115,250,900
dstributed Cost (None					
TOTAL PROJECT COST (C of E Punds Only)	178,000,000	22,713,100	23,026,000	30,000,000	115,850,920
Pending Adiustments			1		
POTAT. COST (C at I Tinds (Mly)	178,000,000	22, 713, 100		20,000,000	115,260,900
Undelivered Orders		+6,079,100			
TOTAL OBLIGATIONS		28,792,200	13,946,900	30,000,000	115,260,500
NOR-MEDERAL CONTRIBUTION					
LATES AND DAMATES	25,153,000	12,846,000	4,577,000	1,909,000	000 Ents
2 1.5	4, 585, 000	2,950,000	242,000	455,000	941,000
	6,988,000				6, 980, 000
ROADS	6,000				000.5
CHANNELS AND CANALS	591,000				959,000
REPUBLIS AND SHAWALES	900.198	The second secon			000, 135
LEVERS AND FLOOMALIS	38,211,000	1,289,200		6,125,000	17,196,886
TOOK CONTROL AND DIVERSION STRUCTURES	5, 515, 000	The second secon			5, 275, 000
CENTRAL OFFATIN BUILDING	300.7				1,00
NGIMELYING AKD DESIGN	3,351,000	208.75		000 gr	3,247,200
SUPERVISION AND ADMINISTRATION	2,335,000	72,000			2,293,000
TOTAL AFFLIED COST (Non-Federal Only)	77,000,000	19,615,000	4.819.000	8.505,000	14,061,000
OTAL PROFECT COST (Non-Pederal Only)	77,000,000	19,615,000	1,819,000	8,505,000	44,061,000
Ferding Admitments [None]					A. C.
	000 000 77	34.617.000	4,019,000	6,705,000	44,002,000
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MANAGEMENT TO STATE OF THE	APPROPRIATION TITLES CONSTRUCTION CANARAL	0	CLASSIFICATIONS	, si		
		-	LOCAL PROTECT	PROTECTION (FIGOD CONTROL	CONTROL PROJECT	m)
	SUMMA	RY CONSTRUCTION PROGR	SUMMARY CONSTRUCTION PROGRAM (PB-1)	PB-1)		-
	Will be a second of the second	PROJECT COST ESTOMATE	MAK TO	CERNEST CERNEST 72.	FISCAL YEAR 1973	COMPLETION COMPLETION (COMPLETION)
	(2)	(2)	(0)	6)	35	6
METHOD OF BE	OF FIRMACING					
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Allocations			37 752 000	10,946,100		
Unch Linging	Broblingter Carryovar Prior Year			3,000,300		
Total Bud	Total Punds Aveilable for Chligation			13,946,900	*****	
Appropriat	Appropriations Required	÷			20,000,000	115,260,900
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1 JAN 72				TAKE POR	LAKE POWECHARINA A VICINITY, IA,	TECHNITY, IA.
	DESTRUCT DEM CRIMINE	COLUMN COANTIO	COASTAL LOUISIANS	WITHHE!	THE PROPERTY.	· ·

SHG FCRN 2200 (ER)11-

PREVIOUS EQUITION IS DIRECUELLE, 4