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

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

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

AUTROBIZATION: 1965 Flood Control Act		BEMBETT COST MARIO:	11.9 to 1	
SUMMARIZED FINANCIAL DATA	Accommisted % of Est.	STATUS: (1 January 1973)	PERCENT	COMPLETION SCHEDULE
Estimated Federal Cost \$194,000,000	Fed. Cost		COMPLETE	SCHEDOLE
Estimated Non-Federal Cost 88,000,000 1	/ 27	Locks	0	Mar. 1978
Cash Contribution \$65,409,000 1/		Roads	Ò	Dec. 1981
Other Costs 22,591,000		Channels and Canals	27	Jun. 1978
Total Estimated Project Cost \$282,000,000		Breakwaters & Seawalls Levees & Floodwalls	0	Mar. 1978
Allocations to 30 June 1972 42,739,000		Barrier Unit	0	Dec. 1981
Allocation for FY 1973 17,500,000		New Orleans East Unit	28	Jun. 1982
Allocations to Date \$60,239,000	31	New Orleans West Unit	0	Mar. 1982
Appropriations Requested for FY 1974) 6,400,000 3	/ 34	Mandeville Unit	0	Jun. 1976
Balance to Complete after FY 1974 \$127,361,000		Chalmette Unit	30	Sep. 1982
		Flood Control & Diversion		
'		Structures	O	Jun. 1978
		Permanent Operating Equip.	. 9	Mar, 1978
		Entire Project	21	Sep. 1982

^{1/} Includes \$6,900,000 capitalized cost of O&M for Rigolets Lock.

DIVISION: LOWER MISSISS ----

DISTRICT. NEW ORLEANS

REGION: LOWER MISSISSIPPI LAKE PONTCHARTRAIN & VICINITY, LOUISIANA

1175

^{2/} In addition, local interests, through the combined efforts of the State of Louisians, 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 authorisation.

^{3/} In addition, \$2,660,000 of programed carryover will be available in FY 1974.



PHYSICAL DATA

```
Levees: Average Height - 13 feet
                                                               Control Structures:
         Length - 74 miles
                                                               Chef Menteur , 1,200 ft. total width structure; Sill El.
Drainage Structures: St. Charles Parish-544 ft. wide with
                                                                -25 ft., 8 Gate Bays, Vertical Lift Steel Sates, 2 stacked
                      eight 5.0 ft. high by 9.0 ft. wide
                                                                per bay, 14 ft. by 45 ft. each.
                      combination flap vertical lift gates.
                                                               Rigolets , 1,100 ft. total width structure; Sill E1, -30 ft.
                      Sill Elevation -5.5 m.s.l.
                                                                16 Gate Bays, Vertical Lift Steel Gates, 3 stacked per bay,
                      St. Bernard Parish-two 72 in. dia. CMP
                                                                11.5 ft. by 46 ft. ea.
                      culverts with flap and vertical slide
                                                               Seabrook . 116 ft. total width structure; Sill El. -15.8
                      gates.
                                                                ft., 3 Care Bays, Vertical Lift Steel Gates, 20 ft. by
                                                               32 ft. each.
  Bayou Bienvenue Mavigation Channel 10 ft. by 125 ft. 0.5
  Bayou Dupre Navigation Channel
                                     10 ft. by 125 ft. 0.2
                                                               Floodwalls;
  GIWW Relocation
                                     12 ft. by 125 ft. 7.0
                                                                Rigolets
                                                                                     - I and/or T type wall - 170 ft. long
  Chef Menteur Navigation Channel
                                     16 ft. by 125 ft. 2.3
                                                                Chef Menteur
                                                                                    " I and/or T type wall - 590 ft. long
  Chef Menteur Approach Channel; Depth-25 ft. 6 struct, 1.2
                                                                Bayou Dupre
                                                                                    - I and/or T type wall - 320 ft. long
                                Width: 400 ft. 6 struct,
                                                                Bayou Bienvenue
                                                                                    - I and/or T type wall - 375 ft. long
  Rigolets Approach Channel
                                Depth; 30 ft. @ struct, 1.0
                                                                Varret Highway No. 46- I and/or T type wall - 255 ft, long
                                Width:800 ft. @ struct.
                                                                Caernaryon Buy No. 39- I and/or T type wall - 275 ft. long
 Rigolets Kavigation Channel
                                14 ft. by 110 ft@ str. 1.1
                                                                Inner Harbor Mayigation
                                                                 Canal Westside
                                                                                    - I and/or T type wall - 5.8 miles
                                                                Inner Harbor Navigation
                                                                 Canal Eastside
                                                                                   - I and/or T type wall - 4.1 miles
Dem Closures: Bayou Bienvenue - Earthen - 500 ft. long
                                                                Citrus Back Levee
                                                                                    - I and/or T type wall - 3.2 miles
              Mayou Dupre
                           - Earthen - 500 ft. long
                                                                Floodgates: Chef Menteur - Sector Gated - 84 ft. wide
   Bayou Villere - Earthen - 500 ft. long
                                                                  Bayou Bienvenue . Sector Gated-56 ft. wide
              Pipeline Canal - Earthen - 200 ft. long
                                                                            Bayou Dupre - Sector Gated - 56 ft, wide
              Seabrook
                              - Rock -1040 ft. long
              Chef Menteur
                              - Earthen -1600 ft. long
              Rigolets
                              - Earthen -4700 ft. long
                                                               Locks: Seabrook - 84 ft. by 800 ft. Chamber, Sector Gated
              GIW Bast
                              ~ Earthen ~ 500 ft. long
                                                                       Rigolets allo ft. by 800 ft. Chamber, Sector Gated
              CIWW West
                              - Earthen - 700 ft. long
```

JUSTIFICATION: The lowlands in the Lake Fontchartrain 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 burricanes in the recent past. Hurricane damages result from surges entering Lake Pontchartrain from Lake Borgne 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 Coulet (NR-GO) via the Inner Harbor Navigation Canal (IHNC) provides a direct tidal route from the Gulf of Mexico to Lake Pontchertrain, 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 take Pontchartrain at Seabrook. The complex will provide the multi-purpose 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 \$134,844,000.

FISCAL YEAR 1974: The requested amount of \$6,400,000 will be applied to:

Initiate:		
Berrier Init	\$940,000	
Rigolets Barrier, South, 1st lift leves	500,000	
Rigolets Control Structure	227	
New Orleans Rest Unit	800,000	
Citrus Lakefront Levee, IHNC to Paris Road	•	
Continue:		
Berrier Unit	600,000	
Chef Menteur Barrier (East & West of Chef Menteur) 1st lift levee	500,000	
Rigolets Barrier, North, 1st lift levee	1,700,000	
Engineering and Design	1,360,000	,
Supervision and Administration Total	\$6,400,000	

LAKE POSTCHARTRAIN & VICINITY, LOUISIANA

MON-FEDERAL COSTS: Local interests are to beer 30% of the first cost to consist of the fair market value of all lands, sascements, and rights-of-way, including borrow and spoil disposal areas necessary for construction of the burricane features, and of construction and reaccastions to toads, mailtoness, pipelines, cables, wherees, 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	\$17,209,000
Relocations	5,382,000
Cash Contributions:	
Based on NOT of total project cost	
Iess Seabrook Look	54,999,000
Based on 15/85 ratio for Sembrook Lock	3,510,000
Capitalization of Car for Rigorets Lock	6,900,000
Total	\$88,000,000

local interests are required to operate and maintain all features of the project works, excluding the Rigolets Mavigation lock and Channel and modified dual-purpose Seabrook Lock. The annual cost to local interests for maintenance and operation is estimated at \$315,100 and material replacements \$189,300; a total of \$504,400.

In addition, local interests, through the combined efforts of the State of Louisians, 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 hurricans protection system existing prior to project authorization. Available costs of record are tabulated below:

Combination of State of Louisians and Lake Borgne Lavee District and Chalme	itte	
Back Levee District on the Chalmette Back Levee Protection Systems	\$4,410,000	
Orleans Levee District Board	12,010,000	
Port of New Orleans (Levees along Industrial Canal)	924,000	
Pontchartrain Levee District	5,022,000	
Fourth Drainage District of Jefferson Parish	3,000,000	
Total	\$25,366,000	

1178

A very severe hurricane, "Betsy," occurred in the project area in September 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 alinement will be accepted by the United States as work-in-wind in lieu of cash contribution.

Hurricane "Camille" occurred in the project area in August 1969 and flooded areas along the Inner Harbor Navigation Canal.

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

Chalmette Area Plan: Full assurances have been accepted. Assurances from the St. Bernard Parish Police Jury and the Board of Commissioners of the Lake Borgne Basin Levee District were accepted on 10 October 1968. Assurances from the Board of Commissioners of the Orleans Levee District were accepted on 10 October 1966.

Lake Pontchartrain Barrier Plan: Assurances from the Board of Commissioners of the Orleans Lavee District were accepted on 10 October 1966,

Because of the rising non-Federal cost of participation and the widespread benefits to be derived by surrounding Parishes, the Orleans Lavae District has requested assistance in carrying out the assurances. On 5 March 1971, the Governor of the State of Louisiana, by executive order, designated the State of Louisiana, Department of Public Works as the local coordinating agency for the Lake Pontchartrain Barrier Plan. The U.S. Army Corps of Engineers on behalf of the United States Government, has contacted the Department of Public Works and requested that agency to obtain the necessary assurances for cooperation and cost sharing from local interests. To date, formal assurances have been received from the Board of Lavae Commissioners of the Orleans Levee District, the Board of Commissioners of the Portchartrain Levee District, the Lake Borgne Levee District, and the St. Barnard Parish Police Jury. The St. Tammany Parish Police Jury is reluctant to grant the assurances providing for its participation in the project. However, on 8 May 1972, Governor John J. McKeithen executed formal assurances on behalf of the Police Jury by virtue of his authority under Section 81 of title 38 of Louisians Revised Statutes of 1950, as assended. Such assurances are binding on the St. Tammany Parish Police Jury. Acceptance of replacement assurances are pending receipt of pertinent supporting documents.

COMPARISON OF FEDERAL COST ESTIMATES: The current Federal cost estimate of \$194,000,000 is an increase of \$16,000,000 over the latest estimate (\$178,000,000) submitted to Congress. This change includes \$16,340,000 for higher price levels, and \$3,444,000 in Engineering and Design, and \$896,000 in Supervision and Administration based on a reanalysis of requirements. This increase was offset by an overall reduction of \$4,680,000 within the construction features resulting primarily from an adjustment in the allocated Federal cost because local interests are no longer given credit for lands under levee existing at project authorization.

STATUS OF ENVIRONMENTAL IMPACT STATEMENT: The draft Environmental Statement was submitted to CEQ in August 1972. The final Statement is scheduled for submission to CEQ in the third quarter of FY 1973.

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

APPROPRIATION TITLE: CONSTRUCTION GENERAL	CLASS	CLASSIFICATION:			
				CONTROL PROJEC	T)
SUMMA	RY CONSTRUCTION FISCAL YEARS 19.73		(PB-1)		
. /TEM	PHOJECT COST ESTIMATE	10TAL TO 30 JUNE 18.72	GURRENT FISCAL YEAR (073	BUOGET FISCAL YEAR 1974	BALANCE TO COMPLETE: 14 AFTER FY 19, 14
· · · · · · · · · · · · · · · · · · ·	(2)	9)	(4)	(3)	(8)
LAMDS AND DAMAGES	17,209,000	11,596,000	3,026,000		573,00
RELECTIONS	5,382,000	2,904,700	910,000	1,043,400	583,90
LOCKS	29,480,000				29,480,00
ROADS	105,000				105,00
CHAMMELS AND CANALS	2,875,000	764,800			2,110,20
BREASWATERS AND SEAWALLS	1,980,000				1,980,00
LEVEES AND FLOODWALLS	155,308,000	28,703,800	8,977,900	20,095,000	95,531,30
FLOOD CONTROL & DIVERSION STRUCTURES	33,040,000		T	500,000	32,540,00
PERMANENT OPERATION SQUIPMENT	28,000	2,500	17,500		8,00
ENGINEERING AND DESIGN	22,521,0001/	8,024,500	2,000,000	1,700,000	10,895,50
SUPERVISION AUMINISTRATION	13,972,000	2,411,000	794,790	1,360,000	9,406,30
TOTAL APPLIED COST (Fed. & Non-Fed.)	252,000,000	54,407,300	15,725,100	26,712,400	185,154,2
Undistributed Cost (None)					
TOTAL PROJECT COST (Fed. & Non-Fed.)	282,000,000	54,407,300	15,726,100	26,712,400	185,154,20
Pending Adjustments		:			
TOTAL COST (Fed. & Non-Fed.)	282,000,000	54,407,300	15,726,100	26,712,400	165,154,20
Undelivered Orders		+9,355,000		-13,555,000	
TOTAL OBLIGATIONS		63,762,300	19,926,100	13,157,400	185,154,20
TOTAL APPLIED COST (Fed. Funds Only)	194,000,000	33, 383, 900	10,640,100	22,615,000	127.361.00
Undistributed Cost (None)					
TOTAL PROJECT COST (Ped. Funds Only)	194,000,000	33, 383, 900	10,640,100	22,615,000	127,361.00
Pending Adjustments					
NOTAL COST (Fed. Funds Only)	194,000,000	33,383,900		22,615,000	127,361,00
Undelivered Orders		+9,355,000	+4,200,000		
TOTAL OBLICATIONS		42,738,900	14,840,100	9,060,000	127,361,00
1/ Includes \$53.200 for Real Estate Acti	vities.				
Habitan Company of the Company of th		**************************************	 		
AFFECTIVE DATE PRINCIPAL LOWER MICS, VALLEY	MEGION LOWER MIS	STSSTPPT	PROJECT LAKE	I S PONTCHARTRAI	₩ AND
1 Jan 73 pistrict NEW ORLEANS	BASIN COASTAL LO			A. (HURRICANE	

2200

PREVIOUS EDITION IS DESOLETE

APPROPRIATION TITLE: CONSTRUCTION GENERAL	OLAS	isification: LOCAL PRO	TECTION (FLOO	D CONTROL PROJ	ect)
SUMMAR	Y CONSTRUCTION FISCAL YEARS 1973	N PROGRAM	(PB-1)		
M37)	PROJECT COST ESTIMATE	TOTAL TO 30 JUNE 1972.	CURRENT FISCAL YEAR B.73.	Bodget Fiscal year 1974.	BALANCE TO COMPLETE AFTER FY 18 74
(1)	(2)	(2h)	(4)	(5)	(6)
TOTAL AFFLIED COST (Non-Federal Only)	88,000,000	21.023.400	5,086,000	4.097.400	57,793,200
Undistributed Cost (None)					
TOTAL PROJECT COST (Non-Federal Only)	88,000,000	21,023,400	5,086,000	4,097,400	57,793,200
Pending Adjustments (None)					
TOTAL COST (Non-Federal Only)	88,000,000	21,023,400	5,086,000	4,097,400	57,793,200
Undelivered Orders (None)					
TOTAL OBLICATIONS		22,023,400	5,086,000	4,097,400	57,793,200
METHOD OF FINANCING	1				
Federal Funds		~~			
Allocations		42,739,000	17,500,000		·
Unobligated Carryover Frior Year			100	2,660,000	
Total Funds Available for Obligation			17,500,100		
Appropriations Required	-			6,400,000	127,361,000
Non-Federal Contributions	1				
Contributions		21,023,400	5,086,000		
Unobligated Carryover from Prior Year					
Total Funds Available for Chligations					1
Contributions Required				4,097,400	57,793,200
Cash		500,000	1,150,000		56,696,300
Squivalent Work	-	20,523,400	3,936,000	3,057,400	1,095,900
					4
	-		* 		
					,
2 JAN 73		SSISSIPPI LOUISTANA		CE PONTCHAPTRA LA. (HURRICANE	

1182