Keller/mr/2344

CELMN-OD-R

DEC 13 1996

MEMORANDUM FOR Commander, Lower Mississippi Valley Division,
ATTN: CELMV-ET-CE

SUBJECT: Annual Inspection of Completed Works Program

In accordance with ER 1150-2-301, ER 1130-2-339, and DIVR 1130-2-304, the following report (Eng Form 4390-R) is submitted herewith for maintenance performance by local interests for all features originally authorized under the Mississippi River and Tributaries Project and under Construction General. Included also are inspection reports for New Orleans District projects.

COLLETTI
OD-R

GUILLOT
OD

EXEC OFC

1st Clark

for WILLIAM L.CONNER
COL, EN
Commanding

2 Encls (trip)
1. Rept, Completed Eng Form 4390-R
2. Rept, MR&T Levees and Small Flood Control Projects

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1996 Annual Inspection for Maintenance of Completed MR&T Flood Control Works in the New Orleans District

1. The 1996 inspections of FCMR&T levees, floodwalls, and drainage structures operated and maintained by local interests were conducted during the period 20 September 1996 through 15 November 1996.

2. All inspections were conducted by the District Commander and/or his Deputy, appropriate members of Operations Division, Engineering Division, Construction Division, Programs and Project Management, Real Estate Division, the Louisiana Department of Transportation and Development (LA DOTD), and Levee Board Commissioners and their staff.

3. Comments on the condition of levees, of maintenance performed by local interests during the year, and our ratings are as follows:

a. EAST JEFFERSON LEVEE DISTRICT

This district is responsible for maintaining 12 miles of levee on the east bank of the Mississippi River and 17.5 miles of hurricane protection levees and floodwalls along and adjacent to Lake Pontchartrain, within Jefferson Parish.

The river levee, hurricane protection levees, and floodwalls were inspected on 20 September 1996. The levees and floodwalls were exceptionally well maintained. An OUTSTANDING rating is assigned.

b. ORLEANS LEVEE DISTRICT

This district is responsible for maintaining 125.9 miles of levees and floodwalls in Orleans Parish; 13.3 miles on the east bank of the Mississippi River and 13.9 miles on the west bank, and 98.7 miles along the shore of Lake Pontchartrain and canals connected thereto.

The mainline river levees and floodwalls were inspected on 27 September 1996, and the hurricane protection levees were inspected on 31 May 1996. An OUTSTANDING rating is assigned.

c. RED RIVER, ATCHAFALAYA and BAYOU BOEUF LEVEE DISTRICT

The levee system within LMN consists of the Mansura Hills to Hamburg levee (20.3 miles), Bayou des Glaises fuse plug levee (8.1 miles), Atchafalaya River levee - right descending bank (43.0 miles), and a portion of the west Atchafalaya Basin protection levee (34 miles).

The inspection was conducted on 3 October 1996. The levees were well maintained and the crowns were in excellent condition. An OUTSTANDING rating is assigned.

d. FIFTH LOUISIANA LEVEE DISTRICT

The levee system within LMN consists only of the right descending Mississippi River levee (16.8 miles) between Black Hawk, LA, and the Old River lock. They are also responsible for 338 miles of levees in LMK.

The inspection was conducted on 4 October 1996. The levee was well maintained and the crown was in excellent condition. An OUTSTANDING rating is assigned.

e. WEST JEFFERSON LEVEE DISTRICT

This district is responsible for maintaining 20.2 miles of levee on the west bank of the Mississippi River and 40 miles of back levees, which are being upgraded under the West Bank Hurricane Protection Project, in Jefferson Parish.

The mainline river levee was inspected on 9 October 1996. The hurricane protection levees will not be inspected until construction is completed. The river levee and floodwall segments were in excellent condition. An OUTSTANDING rating is assigned.

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f. LAFOURCHE BASIN LEVEE DISTRICT

This district is responsible for maintaining 61.7 miles of levee on the west bank of the Mississippi River between Donaldsonville, LA, and the Jefferson-St. Charles Parish line.

The levee was inspected on 17 October 1996, and was found to be in excellent condition. With the completion of the Oak Alley-Willow Grove Levee Enlargement Project, all work in the levee district is complete. An OUTSTANDING rating is assigned.

g. ATCHAFALAYA BASIN LEVEE DISTRICT

The levee system consists of the following reaches of river and floodway levees:

Levee along the south and west banks of lower Old River and the right descending Mississippi River levees from Barbre Landing in Pointe Coupee Parish to Bayou Lafourche at Donaldsonville, Ascension Parish (length is 119 miles, including 1.2 miles of spur dikes and the 3,906-foot length of the Morganza control structure) the upper Morganza floodway levee (length is 12.0 miles including 3.0 miles which are a part of the mainline levee at Morganza control structure); the lower Morganza floodway levee and the east Atchafalaya Basin protection levee extending from the west Mississippi River levee at Morganza, along the east side of the Atchafalaya Basin to a point approximately 6 miles south of Morgan City, in St. Mary Parish (length is 92.6 miles, of which 5.8 miles are maintained by the City of Morgan City and St. Mary Parish); the west Atchafalaya Basin protection levee from Bayou Courtableau in St. Landry Parish along the west side of the Atchafalaya Basin to the Gulf Intracoastal Waterway below Berwick, in St. Mary Parish (length is 92.6 miles, of which 4.9 miles below the lower Atchafalaya River are maintained by the Town of Berwick and St. Mary Parish); the left descending Atchafalaya River levee from Barbre Landing in Pointe Coupee Parish to a point about 1.5 miles above the head of Whiskey Bay Pilot Channel in St. Martin Parish (length is 51.1 miles); the right descending Atchafalaya River levee from Bayou Courtableau in St. Landry Parish to a point below Butte Larose settlement in

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St. Martin Parish (length is 18.0 miles); total length of levees in the district is 387.0 miles.

The levee inspection was conducted on 22 and 23 October 1996. The levees and floodwalls were well maintained. An OUTSTANDING rating is assigned.

h. MORGAN CITY

The protection system north of the Southern Pacific Railroad is known as "Morgan City Front", consists of 213 feet of earthen levee, 1.3 miles of concrete floodwall, a pumping station and 1600 feet of storm drainage facilities; south of the railroad is known as "Tiger Island", consists of 1.6 miles of levee 2,000 feet of concrete floodwall, a pumping station, and 2,500 feet of storm drainage facilities.

The inspection was conducted on 23 October 1996. There were no significant maintenance deficiencies noted. A SATISFACTORY rating is assigned.

i. TOWN OF BERWICK

The protection system consists of 1.6 miles of levee, 0.9 mile of concrete floodwall, and a gated drainage structure to provide protection for a 32-inch storm sewer passing through the floodwall.

The inspection was conducted on 23 October 1996. There were no significant maintenance deficiencies noted. A SATISFACTORY rating is assigned.

j. ST. MARY PARISH

The protection system consists of 63 miles of levee, 11 drainage pumping stations, drainage structures, and numerous culverts.

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The inspection was conducted on 24 October 1996. There were no significant maintenance deficiencies noted. A SATISFACTORY rating is assigned.

k. LAKE BORGNE BASIN LEVEE DISTRICT

This district is responsible for maintaining 12 miles of levee on the east bank of the Mississippi River, 43 miles of hurricane protection levee along and adjacent to the MRGO, 7 pumping stations, and 19 internal drainage canals in St. Bernard Parish.

The mainline river levee was inspected on 1 November 1996. The levee and sections of floodwall were well maintained. An OUTSTANDING rating is assigned.

l. GRAND PRAIRIE LEVEE DISTRICT

This district is one of three under the direction of Plaquemines Parish Government and is responsible for maintaining 37.4 miles of levee on the east bank of the Mississippi River between the St. Bernard-Plaquemines Parish line and the Bohemia Spillway, and 33.4 miles of hurricane protection levee behind the mainline river levee.

The levee was inspected on 1 November 1996. The levee was well maintained and in excellent condition. The hurricane protection levees will not be inspected until construction is completed. An OUTSTANDING rating is assigned.

m. PONTCHARTRAIN LEVEE DISTRICT

This district is responsible for maintaining 111 miles of levee on the east bank of the Mississippi River from a point just below Baton Rouge to the St. Charles-Jefferson Parish line.

The levee was inspected on 7 November 1996. The levee, cattle guards, and fences were well maintained and no significant deficiencies were noted. The Romeville-Remy contract was the only ongoing levee enlargement project in the district. This contract covers approximately 5.6 miles of levee and is scheduled

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to be completed in January 1998. There are two more levee enlargement projects scheduled to be awarded in FY 97. The Marchand-Darrow levee contract is scheduled to be awarded in March 1997 and the Remy-Garyville levee contract is scheduled to be awarded in April 1997. An OUTSTANDING rating is assigned.

n. METROPOLITAN COUNCIL OF BATON ROUGE

This Department of Public Works is responsible for maintaining only 2.1 miles of levee on the east bank of the Mississippi River at Baton Rouge.

The levee was inspected on 7 November 1996 and was observed to be in excellent condition. There was no ongoing levee enlargement work in the area. There was one issue that was discussed at the site. Apparently, there has been a significant amount of landside runoff seeping through the levee, especially along the backside of the riverside concrete slope paving, as a result of the landside ground elevations being higher than the riverside ground elevations. This seepage problem has caused the recently installed slope pavement to crack at several locations and to separate at some of the expansion joints. In order to avoid any further erosion problems during the upcoming highwater season, the voids and cracks have been temporarily grouted. Since it is anticipated that at least 2 weeks of construction time will be needed to correct the problem, a permanent solution will not be implemented until the low water season. The soil nailing contract completed in September 1995, in an attempt to arrest the bank movement in this upstream area, will be monitored for the next several years before proceeding with further levee construction in this area. An OUTSTANDING rating is assigned.

o. PLAQUEMINES PARISH WEST BANK LEVEE DISTRICT

This district is another of three levee districts under the direction of the Plaquemines Parish Government and is responsible for maintaining approximately 37.4 miles of levee on the west bank of the Mississippi River from the Orleans-Plaquemines Parish line to approximate river mile 44.0 AHP at Point Michel.

The inspection was conducted on 15 November 1996, and the levee was well maintained. There was no ongoing levee enlargement work within the district, however, there is a contract for 7.2 miles of levee enlargement work (second lift) scheduled to be awarded in FY 97 (January 1997). An OUTSTANDING rating is assigned.

p. BURAS LEVEE DISTRICT

This district is also under the direction of the Plaquemines Parish Government and is responsible for maintaining 34.1 miles of levee on the west bank of the Mississippi River from Point Michel to Venice, LA, and 34.4 miles of hurricane protection levees behind the river levee.

The river levee was inspected on 15 November 1996, and it was considered well maintained. The hurricane protection levees will not be inspected until construction is completed. An OUTSTANDING rating is assigned.

q. SOUTH LAFOURCHE LEVEE DISTRICT

This district is responsible for maintaining the Larose to Golden Meadow Hurricane Protection Project which consists of 40 miles of hurricane protection levee, six pumping stations, and two floodgates.

An informal inspection was conducted on 26 November 1996, at the request of the South Lafourche Levee District. Since the hurricane protection levees are still in the early stages of construction, a formal inspection will not be conducted until completed reaches of levee have been "turned over" to the levee district. However, in the interim, we inspected several reaches of levee along the east side of the ring levee system that were not under construction. The inspection extended from pump station no. 6 at Breton Canal to the Larose floodgate (sections D-North, E-South, E-North,and F). Although the levees are in the early stages of construction, they were well maintained, and therefore, an OUTSTANDING rating is assigned.

r. Town of Grand Isle

The beach and sand dune features of the Grand Isle and Vicinity Hurricane Protection project were inspected throughout the year, and deficiencies resulting from lack of maintenance by the Town of Grand Isle still exist. The Town of Grand Isle and the Louisiana Department of Transportation and Development (LA DOTD), a co-sponsor of the project, have been advised, by letters and meetings, of our concern for the lack of maintenance and the need for corrective action. The Town of Grand Isle still contends that the breakwaters are not functioning as designed and, therefore, they should not have to bear the costs for maintenance at this time. The noted deficiencies existed prior to construction of the breakwaters.

We have reviewed the design of the project, including the breakwaters, and it is our contention that based on performance thus far, the design is adequate. The Town of Grand Isle and LA DOTD were advised again that the breakwaters will not stop erosion completely, and maintenance will be a continuous periodic requirement for years to come. We are extremely concerned about their inability to appropriate funds to correct maintenance deficiencies (now and in the future), and therefore, no additional federal funding will be requested for maintenance or for emergency repairs until funding for maintenance of the project is assured by the local sponsors.

s. SMALL FLOOD CONTROL PROJECTS, NEW ORLEANS AREA

In accordance with ER 1130-2-530 dated 30 October 1996, Chapter 3, Section 3b., small flood control projects authorized under Section 2 of the Flood Control Act of 1937 or Section 5 of the Flood Control Act of 1948 need not be inspected unless they are being considered for emergency rehabilitation under PL 84-99. The small flood control projects that we have inspected and reported on annually in the past are not under PL84-99 consideration, and therefore, were not inspected this year.

Historically, we have not had any problems with these projects, and unless we receive complaints or any reports of problems, they will not be inspected. We will continue to monitor the semi-annual reports that the local sponsors are required to submit, and will investigate any problems that are

reported. The semi-annual inspection reports that our office has received in the past from the local interests have indicated that the projects are in satisfactory condition.

LOCAL PROTECTION PROJECTS (Local Maintenance Responsibility) CONSIDERED DEFICIENT AS OF DECEMBER 19 96
(ER 1130-2-339)

REPORTS CONTROL SYMBOL (DAEN-CWO-40)

PROJECT	READINESS FOR FLOOD EMERGENCY	LOCAL MAINTENANCE PROGRAM	DEFICIENT IN MAINTENANCE OF: FLOODWALLS	SAND DUNE ~~LINE~~ SECTION AND GRADE	LEVEE CROWN ROADWAYS & GATES	REVETTED AREAS	DRAINAGE STRUCTURES	PUMPING PLANTS	PONDING AREAS	CHANNELS & FLOODWAYS	CLOSURE STRUCTURES	DEFICIENT IN CONTROL OF: ENCROACHMENT & TRESPASS	WILD GROWTH	BURROWING ANIMALS	GRAZING	BEACH MAINTENANCE			LOCAL INTEREST NOTIFIED OF EXISTING DEFN.	ESTIMATED COST: RESTORING PROJECT TO SATISFACTORY CONDITION ($000's)	ANNUAL MAINTENANCE ($000's)	REMARKS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
TOWN OF GRAND ISLE	✓	✓		✓								✓				✓			✓	4,375		THE TOWN OF GRAND ISLE AND LA DOTD, THE LOCAL SPONSORS, HAVE BEEN ADVISED BOTH BY LETTERS AND MEETINGS FOR THEIR LACK OF MAINTENANCE RESPONSIBILITIES. SEE SUBPARAGRAPH "r." OF THE INSPECTION REPORT FOR A BROADER EXPLANATION. SINCE LAST YEAR'S REPORT, VERY MINOR MAINTENANCE WORK HAS BEEN PERFORMED BY THE LOCAL SPONSORS, AND IT IS NOW ESTIMATED THAT IT WOULD COST $4,375,000 TO FULLY RESTORE THE PROJECT. NOTE, IT IS ESTIMATED THAT $275,000 COULD BE ATTRIBUTED TO DAMAGES CAUSED BY TROPICAL STORM JOSEPHINE.

ENG FORM 1 JUL 73 4390-R REPLACES ENG FORM 4390-R(Test) WHICH IS OBSOLETE.

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