

ADD 7012

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

LMNED-DD

SUBJECT

Lake Pontchartrain, La. & Vicinity Hurricane Protection Project, Orleans Parish Lakefront Levees West of IHNC - GDM No. 13 Pumping Station No. 12 (Provisions for positive cutoff)

TO C/Gen Engr Sec

FROM C/Struc Des Sec

DATE 5 June 84

CMT 1

Ms. Broussard/cmr/2646

L.B. JSM

1. Reference is made to the 31 May 84 discussion between Mr. Mike Sanchez of your section and Mr. Jorge Romero of this section concerning the subject pumping station's cut-off requirements.
2. Preliminary investigation indicates that a compressed air system could function to prevent reverse flow. The system would have to be designed to ~~operate against a head of~~ ^{reduce the} approximately 5 feet. The floodside still water elevation for this area is 11.5 NGVD.
3. Through conversation with S&WB personnel it has been ascertained that a positive cut-off system would be required only during a period of power/pump failure. We have been informed that the station is equipped with dual electric feeder lines and that an electrical failure is unlikely.
4. It is requested that you design a compressed air system to provide positive cut-off, as described above, and provide us with an estimate of cost for the system for inclusion in the Orleans Parish Lakefront Levees GDM No. 13. Inclosed are details of the pumping station to assist you in your design.
5. The information requested above is needed as soon as possible, but should be provided not later than 18 Jun 84. If you have any questions concerning this request, please contact Mr. Jorge Romero at ext. 2645.

Carl R. Guggenheimer

CARL R. GUGGENHEIMER

Chief, Structural Design Section

1 Incl
as

LMNED-DG

TO C/Struc Des Sec

FROM C/Gen Engr Sec

DATE 20 Jun 84 CMT 2

Mr. Sanchez/jma/2698

A conversation with operations personnel from the N. O. Sewerage & Water Board has revealed that a compressed air positive cut-off system is not feasible for the subject pumping station. In order for such a system to be functional, it requires a minimum submergence of the pump's suction pipe inlet equal to the internal pressure in the discharge pipe required to suppress the flood waters, in this case 5.1 ft. Pumping Station No. 12 however, because of feeder canals interconnected with other drainage stations, can rely on a submergence of only .5 to 1.0 ft of water.

Robert J. Guizerix

ROBERT J. GUIZERIX

Chief, General Engineering Section

LMNED-DD

Lake Pontchartrain, La. & Vicinity Hurricane Protection
Project, Orleans Parish Lakefront Levees West of IHNC - GDM
No. 13 Pumping Station No. 12 (Provisions for positive cutoff)
C/Struc Des Sec 5 June 84
Ms. Broussard/cmr/2646

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ROBERT J. GUIZERIX
Chief, General Engineering Section