DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
WASHINGTON, D.C. 20314-1000

REPLY TO
ATTENTION OF:

12 MAY 2000

CECW-PE

MEMORANDUM FOR Commander, Mississippi Valley Division, ATTN: CEMVD-PM

SUBJECT Upper Mississippi River Navigation System Study

1. References

a. CECW-PE memorandum, 16 March 00, subject: Upper Mississippi River Navigation System Study.

b. CEMVD-PM-E memorandum, 7 April 00, subject: Upper Mississippi River-Illinois Waterway System Navigation System—Responses to Policy Review Comments

2. Concur with your basic approach to responding to the policy review comments provided to you in my 16 March 00 memorandum. The following information relating to the quantification of self-help should be included in the report.

a. Describe the conditions under which industry has provided self-help in the past.

b. Describe the conditions under which industry will provide self-help in the future.

Additionally, ensure that industry understands the extent and nature of delays that are expected to occur without the project and that the industry assessment of the extent of self-help is based on that information. The enclosed tables depict the extent of delays expected for the without project condition.

3. The schedule changes up to the draft report are approved subject to the preliminary draft report being submitted to this office concurrent with the independent technical review scheduled in July. When the report is submitted, include a compliance memorandum explaining how and where in the report each of the policy issues included in references 1.a. and 1.b. was addressed in the report.

CECW-PE
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4. I have no objection to resumption of suspended PED activities as long as those activities are limited to features that have clearly demonstrated near term feasibility.

FOR THE COMMANDER:

HANS A. VAN WINKLE
Major General, USA
Deputy Commander for Civil Works

Enclosure

Without Project
Mid Growth
Mid Elasticities (N=1.2 for Grain)
Self Help when Queue>=12

Location	Probability of Self Help Lockage				
	2015	2020	2030	2040	2050
UM 11	0.000	0.000	0.000	0.000	0.000
UM 12	0.000	0.000	0.000	0.000	0.000
UM 13	0.000	0.000	0.000	0.000	0.000
UM 14	0.027	0.027	0.028	0.028	0.029
UM 15	0.045	0.046	0.046	0.046	0.046
UM 16	0.039	0.040	0.041	0.042	0.042
UM 17	0.077	0.080	0.083	0.085	0.087
UM 18	0.049	0.051	0.055	0.057	0.060
UM 19	0.000	0.000	0.000	0.000	0.000
UM 20	0.367	0.393	0.435	0.470	0.508
UM 21	0.137	0.146	0.161	0.172	0.184
UM 22	0.457	0.481	0.519	0.550	0.578
UM 24	0.649	0.691	0.757	0.802	0.828
UM 25	0.296	0.317	0.349	0.372	0.384

UMR-IW
Delay (hrs)
Without Project

Lock	2000	2005	2010	2015	2020	2030	2040	2050
USA	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
LSA	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
UM01	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
UM02	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8
UM03	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
UM04	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
UM05	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.7
UM05a	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
UM06	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
UM07	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0
UM08	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
UM09	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1
UM10	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
UM11	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
UM12	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.3
UM13	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
UM14	4.2	4.4	4.3	4.4	4.4	4.4	4.5	4.5
UM15	4.9	5.1	5.0	5.1	5.1	5.1	5.1	5.1
UM16	4.5	4.7	4.7	4.8	4.8	4.9	4.9	4.9
UM17	5.8	6.1	6.2	6.3	6.4	6.4	6.5	6.5
UM18	5.0	5.3	5.3	5.4	5.5	5.6	5.7	5.7
UM19	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1
UM20	10.2	12.2	13.0	14.1	15.0	16.7	18.3	20.2
UM21	6.1	6.7	7.0	7.2	7.4	7.7	8.0	8.3
UM22	13.7	16.5	17.8	19.3	20.6	22.9	24.9	27.1
UM24	16.2	22.8	26.8	32.2	37.5	49.3	61.9	71.9
UM25	8.7	10.2	10.9	11.7	12.3	13.4	14.1	14.6
UM26	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.1
UM27	1.1	1.1	1.2	1.2	1.2	1.3	1.4	1.4
LAGRAN	3.4	4.0	4.6	5.2	6.0	8.6	13.1	18.7
PEORIA	3.5	4.1	4.8	5.6	6.6	10.3	17.6	27.4
S.R.	2.2	2.3	2.4	2.5	2.7	2.9	3.2	3.4
MARSA	3.4	3.7	3.9	4.2	4.5	5.1	5.8	6.3
DRES	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.4
BRAN	2.3	2.4	2.5	2.7	2.8	3.0	3.3	3.5
LCKPRT	2.2	2.3	2.4	2.5	2.6	2.8	3.0	3.2
O'BRIEN	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6