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 US Army Corps of Engineers  
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CECW-OE-P

Regulation  
 No. 500-1-21

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Emergency Employment of Army and Other Resources  
 CORPS OF ENGINEERS READINESS EVALUATION SYSTEM  
 RCS: DAEN-CWO-71

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1. Purpose. To prescribe policies, procedures and responsibilities for implementing the U.S. Army Corps of Engineers (USACE) Readiness Evaluation System (CERES).

2. Background. The USACE Readiness Evaluation System (CERES) supports a dual purpose, one for HQUSACE and one for FOA commanders. For HQUSACE CERES provides Corps wide trends depicting preparedness for and readiness to respond to a full spectrum of hazards or emergencies; i.e., threats to national security, natural hazards, technological hazards, civil disturbances, or resource shortages. These trends are determined through using the readiness matrix in a three dimensional mode. It also provides a management tool for the Commander USACE and highlights the Corps readiness in those areas of increasing potential involvement, such as technological hazards, and civil disturbances. For FOA commanders, CERES provides a method to determine division, district and separate FOA preparedness for and readiness to respond to the same full spectrum of hazards or emergencies. CERES is a management tool for commanders, assisting them to assess and improve the readiness of their commands through systematic review of the various components of readiness.

3. Applicability. This ER is applicable to EUD, HND, LMVD, MRD, NAD, NCD, NED, NPD, ORD, POD, SAD, SPD, SWD, CERL, CRREL, TL, FESA, HESCA, and WES, WRSC. This iteration will apply to EUD, HND, FED, POJ, CERL, CRREL, FESA, WES, WRSC, ETL and HECSA on a trial basis.

4. References.

- a. DA Civil Disturbance Plan Garden Plot.
- b. AR 190-52 (Countering Terrorism and Other Major Disruption on Military Installations).
- c. AR 500-60 (Disaster Relief).
- d. AR 500-70 (Military Support to Civil Defense).
- e. AR 570-4 (Manpower Management).
- f. ER 500-1-1 (Natural Disaster Procedures).
- g. ER 500-1-2 USACE Mobilization and Operations Planning System (CEMOPS) and all Draft CEMOPS volumes (some classified and distributed through DAEN-CWO-E).
- h. ER 500-1-18 (USACE Continuity of Operations Planning System).
- i. ER 500-1-19 (Draft) (USACE Training).
- j. ER 500-1-22 USACE Corrective Action Program (CECAP).

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k. ER 500-1-24 USACE Command Readiness Exercise Program (COREX).

l. ER 1130-2-417 (Major Rehabilitation Program and Dam Safety Assurance Program).

m. ER 1130-2-419 (Major Rehabilitation Program and Dam Safety Assurance Program).

n. ER 1145-2-305 (Removal of Wrecks and other Obstruction).

o. ER 500-1-24 USACE Exercise Manual (COREM).

p. USACE OPLAN 87-1, Emergency Regional Reporting System (Distributed through DAEN-CWO-E).

q. USACE CONPLAN 86-1, (Draft) Military Support of Civil Defense (Distributed through DAEN-CWO-E).

5. Responsibilities. Division, district, lab and separate FOA commanders shall complete CERES on an annual basis as of the last day of September. An update will be submitted on the categories that have changed in readiness status on a semi-annual basis as of the last day of March. A consolidated CERES package will be forwarded by each division to reach HQUSACE (CECW-OE-R) NLT the end of the following month. District submittals shall be forwarded to parent divisions for review and consolidation. See Paragraph 10 for specific instructions.

6. Classification. Completed CERES material in UNCLASSIFIED.

7. Structural Concept. CERES evaluates six common functional categories of two readiness program areas by seeking responses to specific questions.

a. Readiness program areas are:

(1) National Emergency Preparedness Program, Appendix A.

(2) Disaster Preparedness Program, Appendix B.

b. Common functional categories are:

(1) Resources.

(2) Personnel and Training.

(3) Logistics.

(4) Plans and Manuals.

(5) Exercises.

(6) Interagency Coordination.

c. Example.

Disaster Preparedness Program = readiness program area

B-1. Resources = common functional category

a. Are ...? = question

b. Have the following....:

(1) ....? = question

(2) ....? = question

8. Evaluation Concept.

a. Readiness of a division or district is displayed as a two dimensional "readiness matrix" supplemented by commanders' comments and an executive summary. Matrix dimensions are readiness program areas and common functional categories. A cell of the readiness matrix therefore represents the readiness of a common functional category within a readiness program area; the value of each cell is determined by the weighted answers to a specific series of questions.

b. To provide a bias toward the responses to critical questions and account for inter-divisional differences in risk exposure, an applicability value (weight) is assigned to each question. Applicability values will be set by each division commander for his division, and by district commander for the district. If division commanders feel a district assigned applicability value is not appropriate, the division commander may re-assign that applicability value. HQUSACE reserves the right to pre-assign applicability values for any question if the need arises. The definition, corresponding percent of applicability and numerical weight assigned to each applicability value are shown in figure 1.

c. The applicability value that you assign to each requirement will be determined by the magnitude of the effect that the requirement has on the readiness of that mission.

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EXAMPLE: Your div/dist/lab/other FOA is responsible for an area that is known to have major earthquakes. The question you are trying to answer is "Do you have an earthquake response plan developed and updated?" the magnitude of the effect on your readiness is between 90 and 100 percent, therefore you would choose an applicability value of 5.

APPLICABILITY VALUE WEIGHT		
High (90%-100%)	Directly and substantially influences readiness. Negative response indicates a significant readiness shortfall.	5
Substantial (80-89%)	Very important to readiness.	4
Average (70-79%)	Important to readiness.	3
Marginal (50-69%)	Has some impact on readiness.	2
Low (1-49%)	A non-critical readiness factor or of little relevance to this particular organization.	1
None	Does not pertain to this organization.	0

Figure 1. Applicability Values.

d. To provide an accurate answer to questions, a value is assigned to each of five allowable responses. These are displayed in figure 2.

EXAMPLE: Consider answering the question: "Do you have your MOB plan completed and upgraded?". Your answer is that it is completed but only about 85% updated. Your degree of compliance should be the number three.

DEGREE OF COMPLIANCE		
90-100%	complete	4
80-89%	complete	3
70-79%	complete	2
60-69%	complete	1
0-59%	complete	0

Figure 2 Response Values.

e. As stated above, the readiness of each cell in a readiness matrix (i.e., common functional category within a readiness program area) is determined by the weighted responses to a specific series of questions. Figure 3 illustrates this procedure. Figure 4 translates the calculated numerical readiness to an adjectival readiness. As each group of questions is answered, readiness data derived are transferred to the readiness matrix, Appendices C-1 and C-2.

QUESTIONS	APPLICABILITY VALUE (AV)	RESPONSE (R)	READINESS QUALITY POINTS (RQP)
a. Does ...?	(Average) 3	(80-89%) 3	_9
b. Are ...?	(High) 5	(70-79%) 2	10
c. Are the following ...:			
(1). ....?	(Low) 1	(90-100%) 4	_4
(2). ....?	(None) 0	( 0-59%) 0	_0
(3). ....?	(High) 5	(90-100%) 4	20
	<u>14</u> Sum(AV)		<u>43</u> Sum(RQP)

$$\text{Numerical Readiness} = \text{Sum (RQP)}/\text{Sum (AV)} = \underline{14} / \underline{43} = 3.07$$

Resources: Adjectival Readiness = Marginal

Figure 3. Calculation of Numerical and Adjectival Readiness.

NUMERICAL READINESS		ADJECTIVAL READINESS	
FROM	TO		
3.20	4.00	R	READY
2.40	3.19	M	MARGINAL
0.00	2.39	U	UNREADY

Figure 4. Translation to Adjectival Readiness.

f. Commanders may comment as they deem appropriate using ENG FORM 4889-R or the area provided in the computer program. Comments are mandatory for each cell rated marginal or unready; the reasons therefore and corrective action will specifically be addressed. Comments shall be keyed to a specific readiness matrix cell and be succinct, not exceeding one page per cell. Commanders will also prepare a one page executive summary addressing matters of readiness which they deem appropriate. The Division commanders executive summary should include comments geared towards subordinate districts as well as the division office.

g. Readiness matrices data, (tempered by commanders' comments), will be used by HQUSACE to develop USACE-wide readiness information, to conduct statistical analyses identifying systemic problems, and to provide input for command readiness briefings.

9. General. Points to remember as you complete CERES.

a. CERES is developed around a compendium of existing requirements that has been published to FOA through various AR and ER.

b. CERES is a self evaluation that will be reviewed by HQUSACE upon submission.

c. Definitions/Explanations for clarification as follows:

(1) Plans/Manuals: The items referred to in this section do not have to be a stand alone plan or manual. Many items may be an annex or supplement to another plan/manual.

(2) Applicability: Not all requirements apply to each FOA. If an item does not apply to your mission, use an applicability value of zero.

10. Specific Instructions.

a. Divisions, districts, and separate FOA will utilize the questions in appendices A and B, and complete CERES on an annual basis with a semi-annual update as specified in paragraph 5. The division evaluation will address only division headquarters activities.

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b. Districts will submit completed readiness matrices with commander's comments (Appendix C) and the executive summary to their parent division. Divisions will review evaluations for accuracy, consistency, and sufficiency, complete a division headquarters evaluation, and forward a consolidated CERES package to HQUSACE (CECW-OE-R) IAW suspense in paragraph 5. Labs and Separate FOA will submit the same information as divisions and districts.

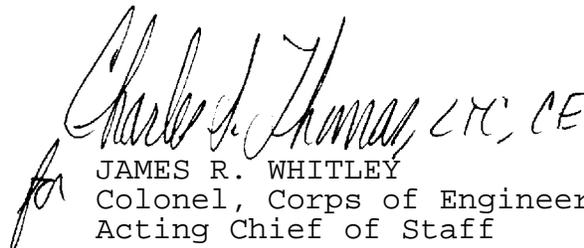
c. A computerized support package, is being furnished under a separate cover. The program consists of three disks, the User Disk, the CERES Disk and the Data Disk. Once completed only the Data Disk need be forwarded for review. If the computerized version cannot be used, a hard copy of Appendicies A, B and C must be completed. ENG FORM 4889-R may be locally reproduced or electronically generated. Electronic versions must be literally and sequentially parallel to the conventional version, i.e., variations, additions or omissions are not authorized.

11. Feedback. HQUSACE (CECW-OE-R) will provide feedback to divisions NLT the end of the second month following the submittal date. Feedback will include:

a. USACE-wide trend data.

b. Status of HQUSACE actions impacting division and/or subordinate district readiness.

FOR THE COMMANDER:

  
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3 Appendices  
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Data  
APP B - Disaster Preparedness  
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