ENGINEERING AND CONSTRUCTION BULLETIN

US Army Corps of Engineers

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SUBJECT: District Engineering Control Systems Point of Contact.

CATEGORY: Guidance.

1. **References:**

a. Engineer Regulation (ER) 1110-1-12, Engineering and Design: Quality Management, 30 September 2006

b. ER 1110-1-8158, Centers of Expertise Program, 1 April 2022

c. ER 1110-1-8163, Design and Construction Policy for Utility Monitoring and Control Systems (UMCS-MCX), 31 January 2014

d. ER 25-1-113, USACE Critical Infrastructure Cybersecurity Mandatory Center of Expertise (UCIC-MCX), 31 January 2019

e. ER 1110-1-8174, Military Programs Control System Cybersecurity Mandatory Center of Expertise (CSC-MCX), 30 October 2020

f. Unified Facilities Criteria (UFC) 3-410-02, Direct Digital Control for HVAC and Other Building Control Systems, 12 April 2021

g. UFC 3-470-01, Utility Monitoring and Control System (UMCS) Front End and Integration, 12 January 2018

h. UFC 4-010-06, Cybersecurity of Facility-Related Control Systems (FRCS), 10 October 2023

2. **Applicability.** This guidance is applicable for all U.S. Army Corps of Engineers (USACE) Districts.

3. **Background.** Control systems are continually evolving and represent essential mission requirements for the Army. The USACE Control Systems Community of Practice is developing a communication channel regarding control system functionality, cybersecurity, training, testing and lifecycle management activities with a goal to develop and communicate best practices. This ECB provides guidance to identify an Engineering Control Systems Point of Contact (ECS-POC) for each district. The control system engineering and construction discipline encompass several aspects.

a. When this ECB refers to control systems, this includes the engineering of:

- System functionality for facility related control systems such as alarming, configuration and control, graphical user interface, and trending.
- Cybersecurity of control systems
- Data analysis and system optimization
- Communication protocols and system architecture

b. Control systems technical competency is needed at the district level to ensure engineering and construction projects meet requirements for functionality and security while providing consistent quality.

c. HQUSACE does not have a consistent method of communicating new control system requirements and technical capabilities to engineering at the project level. This ECB establishes an ECS-POC in each district to promote efficient communication of any new requirements.

d. Engineering personnel collaboration is needed at the district and national level to ensure quality technical and secure control system design.

4. **Guidance.**

a. To increase awareness and product quality of control systems, it is recommended each District identify an ECS-POC. The duties are assigned to one member of the district that serves as the liaison between the district, headquarters (HQUSACE), and the relevant Mandatory Centers of Expertise (MCX). Coordination includes in-person, virtual, and written communications.

b. The ECS-POC duties establishes a consistent communication path between the district, HQUSACE and the MCXs for any new design guidance, regulation changes, and emerging technologies.

c. It is recommended the initial ECS-POC be officially identified within 30 days of this ECB being published and notification of selection be sent to the HQ POC listed below. A district should always have an ECS-POC identified to prevent gaps in coordination with HQUSACE, MSCs, MCXs, and projects.

5. **Responsibilities and Qualifications.**

a. Responsibilities.

(1) The ECS-POC will receive relevant information regarding engineering requirements from the Control System Community of Practice Lead and relevant MCXs, as well as provide feedback to HQUSACE.

(2) Cybersecurity threats change rapidly, and new requirements may emerge between UFGS publication cycles. The ECS-POC will communicate with the Control System

Community of Practice Lead and appropriate MCXs to inform PDTs on necessary guide specification changes.

(3) Attend meetings (virtual or in person) with HQUSACE Control System Community of Practice Leads and MCXs to actively participate and enact updated requirements, provide feedback and participate in lessons learned on engineering and construction projects.

b. Qualifications. The District Chief of Engineering will consider the qualification requirements below and assign the ECS-POC for the district.

(1) Prefer at least five (5) years of experience performing engineering and/or construction projects in control systems or related field.

(2) Technical participant in control systems on engineering and construction project delivery teams.

6. **Point of Contact.** HQUSACE point of contact for this ECB is Shane Nieukirk, CECW-EC, (202) 761-0522, Control Systems Community of Practice Lead.

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