



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
MISSISSIPPI VALLEY DIVISION
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CEMVD-PDP

15 December 2023

MEMORANDUM FOR Chief, Civil Works Engineering, USACE Headquarters, Vanessa Bateman, CECW-EC

SUBJECT: National Certification of the Net Emissions Analysis Tool (NEAT)

1. References:

- a. Engineer Circular 1105-2-412: Assuring Quality of Planning Models, 31 March 2011.
 - b. US Army Corps of Engineers. Assuring Quality of Planning Models - Model Certification/Approval Process: Standard Operating Procedures. Feb 2012.
 - c. Memorandum to Directors of National Planning Centers of Expertise – Subject: Modification of the Model Certification Process and Delegation of Model Approval for Use, 04 December 2017.
 - d. Memorandum from the Director of Civil Works to MSC Commanders – Subject: Delegation of Model Certification, 11 May 2018.
 - e. Memorandum to Director of the Ecosystem Restoration Planning Center of Expertise - Subject: Recommend National Certification of the Net Emissions Analysis Tool (NEAT), 30 November 2023.
2. An independent review team managed by the Ecosystem Restoration Planning Center of Expertise evaluated the subject model. The model was found to be technically sound, computationally correct, usable for Civil Works planning, and policy compliant.
 3. The Net Emissions Analysis Tool (NEAT) is certified for national use in the continental United States. Independent technical review is complete and the model meets the criteria contained in References 1.a. and 1.b. There are no unresolved issues stemming from the review.
 4. Appropriate Use and Quality Control. The appropriateness of the model and its variables must be checked by experienced modeler(s) and biologist(s) before each application of the model. The application of the model will also be described in the Review Plan for studies or similar decision-making efforts. The Review Plan will identify District Quality Control and technical review requirements for the model and its application, per current review guidance. Regarding the individuals who apply the model, Districts are entrusted to confirm that the modeler(s) who are using the model have the experience needed to apply the model correctly and interpret the

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model outputs. In addition, if modeler(s) have any uncertainties with the application and/or interpretation of the model, then he/she should engage the ECO-PCX and the USACE Air Quality and Greenhouse Gas Emissions Analysis Sub-Community of Practice.

5. Given the evolving nature of climate change science and the novelty of the CEQ requirements, the USACE Air Quality and Greenhouse Gas Emissions Analysis Sub-Community of Practice plans to release NEAT model updates on an ongoing basis based on developing science, planned functionality upgrades, and feedback on the initial version of the model from the field. If significant changes to industry-standard emission models used for the NEAT inputs occur and lead to changes to NEAT, then updates and modifications to NEAT need to be coordinated with the ECO-PCX. In light of these planned updates, this certification expires 15 December 2026.

Signing for Dr. Kelly Keefe

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Kelly J. Keefe, PhD
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CEMVD-PDP (Lawton, Mallard, Mickal)

CEMVP-PD-P (Runyon)

CESPN-PME-P (Emmons)

CECW-EC (Veatch)

CECW-PC (Applegate)

CECW-EC (Bateman)

CEERD-EEW (Berkowitz)