



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
441 G STREET, NW
WASHINGTON, DC 20314-1000

CECW-P

15 August 2011

MEMORANDUM FOR Director, Planning Center of Expertise for Inland Navigation (PCXIN)

SUBJECT: Waterway Analysis Model (WAM), Shallow Draft Version 10-01 (WAM-SD-10-01)

1. The shallow draft version of the inland navigation simulation model, developed to estimate delays at locks and dams, is certified for use. Adequate technical reviews have been accomplished and the model meets the certification criteria contained in EC 1105-2-412. This certification is based on the decision of the HQUSACE Model Certification Panel which considered the PCXIN assessment of the model.
2. The Certification Documentation Report attests that the model is expensive to modify and maintain; it relies on a proprietary computer language that requires a special compiler to create executable code; and that there are a limited base of developers who can read and understand the code. While the model is currently the best we have for its purpose, it was decided that the model certification will elapse after half of the maximum certification period of 7 years. During that period the PCXIN should oversee the development of a more state-of-the-art and user-friendly model or develop a plan for training more technical specialists in the use of WAM.
3. The PCXIN requested certification of the model with the proviso of exclusive use by technical specialists of the PCXIN. The panel did not believe it was responsible for determining who could use the model and therefore chose not to restrict use to the PCXIN. Further, given the limited number of experienced WAM modelers at the PCXIN, the PCXIN will need to ensure the independence of ATR on future model runs for specific studies.

EXPIRES: 30 September 2014

THEODORE A. BROWN, P.E.
Chief, Planning and Policy Division
Directorate of Civil Works