



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
PACIFIC OCEAN DIVISION, CORPS OF ENGINEERS
FORT SHAFTER, HAWAII 96858-5440

CEPOD-PDC

26 July 2007

MEMORANDUM FOR COMMANDER, ALASKA ENGINEER DISTRICT, ATTN:
CEPOA-PM-C

SUBJECT: Review Plan approval for the Storm Damage Reduction Measures, Barrow,
Alaska Study

1. The enclosed Review Plan for the Storm Damage Reduction Measures, Barrow, Alaska Study has been prepared in accordance with EC 1105-2-408 and the Director of Civil Works' "Peer Review Process" memorandum dated March 30, 2007.
2. The Review Plan is available for public comment, and the comments received will be incorporated into the Review Plan as appropriate. The Review Plan has been coordinated with the Hurricane and Storm Damage Prevention Planning Center of Expertise of the North Atlantic Division, U.S. Army Corps of Engineers, which is the lead office to execute this Review Plan. The Review Plan does not include external peer review because the scope and technical complexity of the feasibility study and report/EIS are not expected to be novel, controversial or precedent setting.
3. I hereby approve this Review Plan, which is subject to change as study circumstances require, consistent with study development under the Project Management Business Process. Subsequent revisions to this Review Plan or its execution will require new written approval from this office.
4. The point of contact for this Review Plan can be reached at (907) 753-5680.

FOR THE COMMANDER:

Encl

A handwritten signature in black ink, appearing to read "E-M-B", with a horizontal line extending to the right.

EUGENE M. BAN, P.E.
Director of Programs

FEASIBILITY STUDY PEER REVIEW PLAN
Storm Damage Reduction Measures
Barrow, Alaska
PWI: 013656

This information is distributed solely for the purpose of pre-dissemination peer review under applicable information quality guidelines. It has not been formally disseminated by the U.S. Army Corps of Engineers, Alaska District. It does not represent and should not be construed to represent any agency determination or policy.

1. In cooperation with the North Slope Borough (NSB), the Alaska District, Corps of Engineers (COE) is conducting a cost-shared feasibility study at Barrow, Alaska. The feasibility study will evaluate storm and flood damage reduction alternatives. The decision document generated by this feasibility study will undergo Independent Technical Review (ITR) in accordance with EC1105-2-408, Peer Review of Decision Documents. The Project Delivery Team (PDT) for this study consists of the following disciplines/positions. Other disciplines will be added as needed.

Project Delivery Team (PDT)	
Project Manager (Corps of Engineers)	Alaska District, Anchorage, AK
Program Manager (study sponsor) Sponsor Contractors	NSB, Barrow, AK ASRC, Inc., Anchorage/Barrow, AK Native Village of Barrow, AK
Project Formulator	Alaska District, Anchorage, AK Federal Emergency Management Agency, Bothell, WA State Floodplain Manager, Anchorage, AK
Hydraulic & Hydrologic Engineers	Alaska District, Anchorage, AK Coastal Hydraulic Laboratory, Vicksburg, MS Cold Regions Research & Engineering Laboratory, Hanover, NH Oceanweather, Inc., Cos Cob, CT Tryk Nyman & Hayes, Inc., Anchorage, AK University of Alaska-Anchorage, AK
Economists	Alaska District, Anchorage, AK Institute for Water Resources, Ft. Belvoir, VA Tetra Tech, Inc., Seattle WA/Sacramento CA RMM, Inc.

Biologists	Alaska District, Anchorage, AK US Fish & Wildlife Service, Anchorage, AK National Marine Fisheries Service, Juneau, AK
Archaeologists	Alaska District, Anchorage, AK Ukpeagvik Inupuit Co., Anchorage/Barrow, AK
Cost/Value Engineer	Alaska District, Anchorage, AK
Geotechnical Engineer	Alaska District, Anchorage, AK
Real Estate Specialist	Alaska District, Anchorage, AK

The point of contact in the Alaska District for this Peer Review Plan (PRP) is the Project Manager, who can be reached at 907-753-5680 or by e-mail at: www.Poa.barrow-sdr@poa02.usace.army.mil.

2. The scope and technical complexity for this feasibility study and report/EIS is not expected to be novel, controversial, or precedent setting. The study uses a number of engineering and planning technical models to develop wind and wave information into estimates of storms, flooding and flood damages. The engineering models include: the Wave prediction Model (WAM), STeady state spectral WAVE (STWAVE) model, ADvanced CIRCulation (ADCIRC) model, Storm-induced BEAch Change (SBeach) model, and the Interactive Optimum Kinematic Analysis (IOKA) System. The planning model to be used is Beach-fx (risk-based economic damage model). These are models in common use, which have been adapted for use in arctic conditions by the study team. There is no current requirement for certification of engineering models. The planning model used in the study, Beach-fx, is a Corps of Engineers corporate model. The certification is the responsibility of the model proponent, the Institute for Water Resources. Therefore, External Peer Review (EPR) by organizations and personnel not affiliated with the Corps of Engineers, such as academia, is not required to be performed for this study.

3. Review will consist of ITR by personnel within and outside the Corps of Engineers. Technical reviewers will be personnel at journeyman or senior levels with experience in Corps of Engineers civil works studies. These reviewers have not been nor will be involved in the day to day decisions and development of study work products. Major ITR personnel will be selected from outside Alaska District. The ITR Team will be made up of people with experience in the major disciplines. Coordination will be maintained with representatives of the local sponsor during the ITR review. The District may propose ITR members, but the ITR Team Leader will have final responsibility for selecting ITR personnel. The team's purpose is to provide a technical review of all elements of the feasibility study, including models used, and to insure planning, analysis, and design conform to applicable USACE standards, policy, and guidance. The following table lists the disciplines and their organizations anticipated for the ITR Team:

Independent Technical Review Team (ITRT)	
Project Formulation and Policy Specialist	Los Angeles District
Coastal Hydraulics Engineer	University of Florida
Economist	New England District
Environmental/NEPA/Biologist/Cultural	Alaska District
Cost Engineer	Walla Walla District
Geotechnical Engineer	Alaska District
Real Estate Specialist	Alaska District
Non-Structural Specialist	Omaha District

The Barrow ITR will be managed by the Storm Damage Reduction Planning Center of Expertise (PCX) in North Atlantic Division, since storm damage reduction is the major focus of the COE study/project. The PCX has designated the Coastal Studies Group of the Los Angeles District as lead for the ITR. The point of contact in Los Angeles on the PCX ITR Team is reachable at (213) 452-3810.

The Barrow ITR team will review the Alternative Formulation Briefing (AFB) document (the draft integrated interim feasibility report/EIS) before submittal of the document to Pacific Ocean Division for approval and processing to USACE higher authority for approval to conduct public review of the draft document. There will be a second phase of the ITR, ITR team review of the final interim FR/EIS before it is submitted to Pacific Ocean Division for approval and processing to USACE higher authority, only if there are significant changes in the draft report as a result of public review of the draft report. The estimated cost of the ITR review is \$50,000, split between the ITR team and the PDT.

5. The anticipated schedule for ITR review is:

Alternative Formulation Briefing (AFB) document {Preliminary Draft Integrated Interim Feasibility Report and EIS}	July 2007
Final Integrated Interim Feasibility Report and EIS (only if required)	Winter 2008

6. The public will have opportunities to review the study and will be notified of availability of the draft document and public meeting(s) in accordance with National Environmental Policy Act procedures. Public meeting(s) have been and will be held in Barrow, Alaska, by the PDT. The PDT will accept comments from the public for consideration in the study and preparation of documents. The ITR team will generally not receive public comments, as public comments are used to develop the document the ITR team reviews.