



REPLY TO
ATTENTION OF

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

CEPOD-PDC

2 November 2012

MEMORANDUM FOR COMMANDER ALASKA ENGINEER DISTRICT (CEPOA-PM-C-PL/JASON NORRIS), P.O. BOX 6898, JBER, AK 99506-0898

SUBJECT: Review Plan Approval for the Golovin Continuing Authorities Program (CAP) Section 103 Feasibility Report, Golovin, Alaska, Storm Damage Reduction Project

1. References:

a. Engineering Circular 1165-2-209, Civil Works Review Policy, 31 January 2010, and Change 1, 31 January 2012.

b. Policy Memorandum #1, HQ USACE, CECW-P, 19 January 2011, subject: Continuing Authority Program Planning Process Improvements.

c. Review Plan for the Golovin Section 103 Feasibility Report, Golovin, Alaska, Alaska District, U.S. Army Corps of Engineers, 2 November 2012.

2. The enclosed Review Plan (reference 1.c.) for the Golovin, Alaska, storm damage reduction project was prepared IAW references 1.a. and 1.b. The Pacific Ocean Division Civil Works Division is the lead office to execute this Review Plan. This Plan does not include Type I Independent External Peer Review.

3. I approve this Review Plan. It is subject to change as circumstances require, consistent with project 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 memorandum is Mr. Russell Iwamura, Senior Economist, Civil Works Integration Division, at 808-835-4625 or email Russell.K.Iwamura@usace.army.mil.

Encl


GREGORY J. SUNTER
Colonel, EN
Acting Commander

Handwritten signature or scribble.

**REVIEW PLAN
FOR CONTINUING AUTHORITIES PROGRAM (CAP)
SECTION 103 PROJECTS**

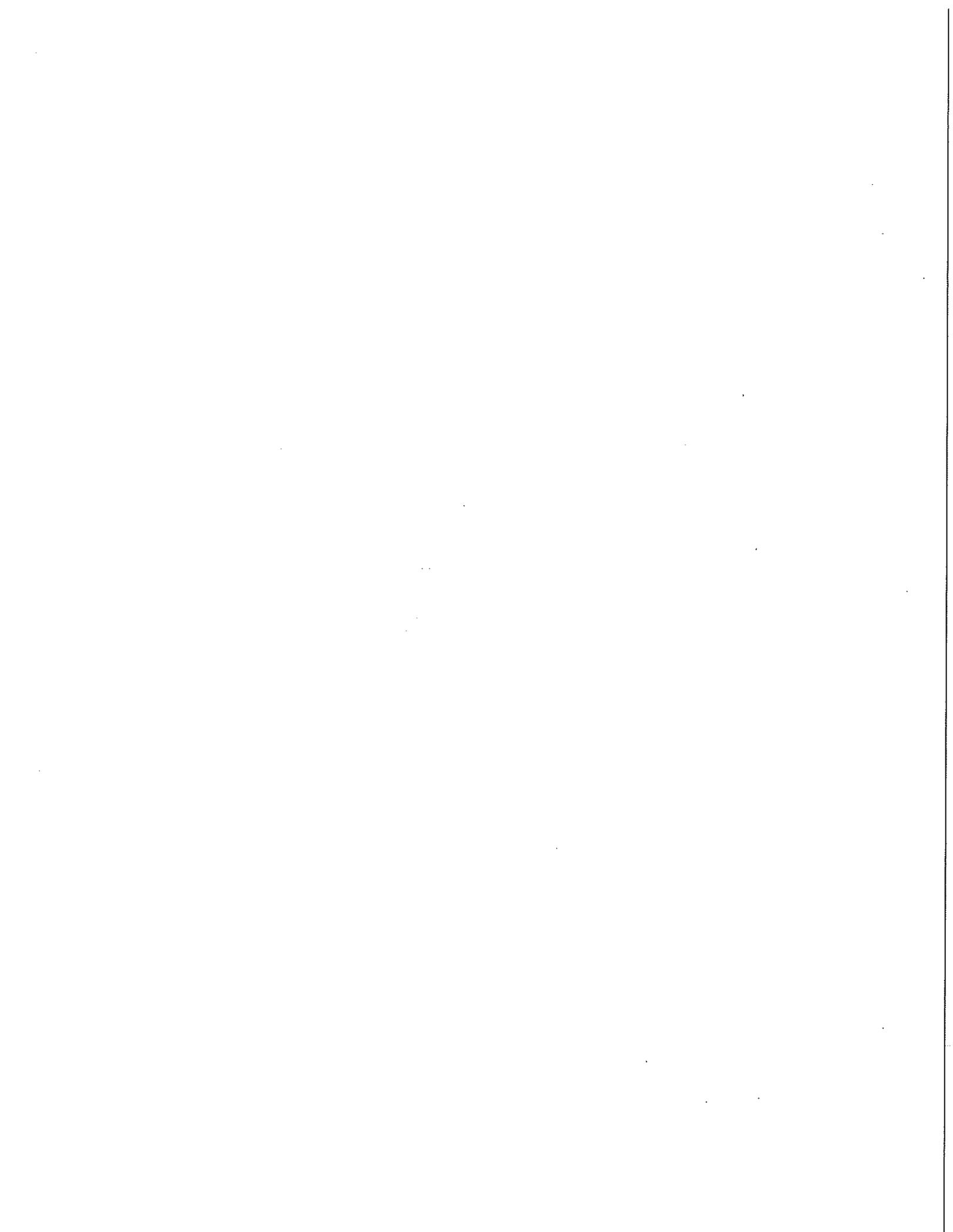
**GOLOVIN, ALASKA SECTION 103 STORM DAMAGE
REDUCTION**

ALASKA DISTRICT

**MSC Approval Date: November 2, 2012
Last Revision Date: None**



**US Army Corps
of Engineers ®**

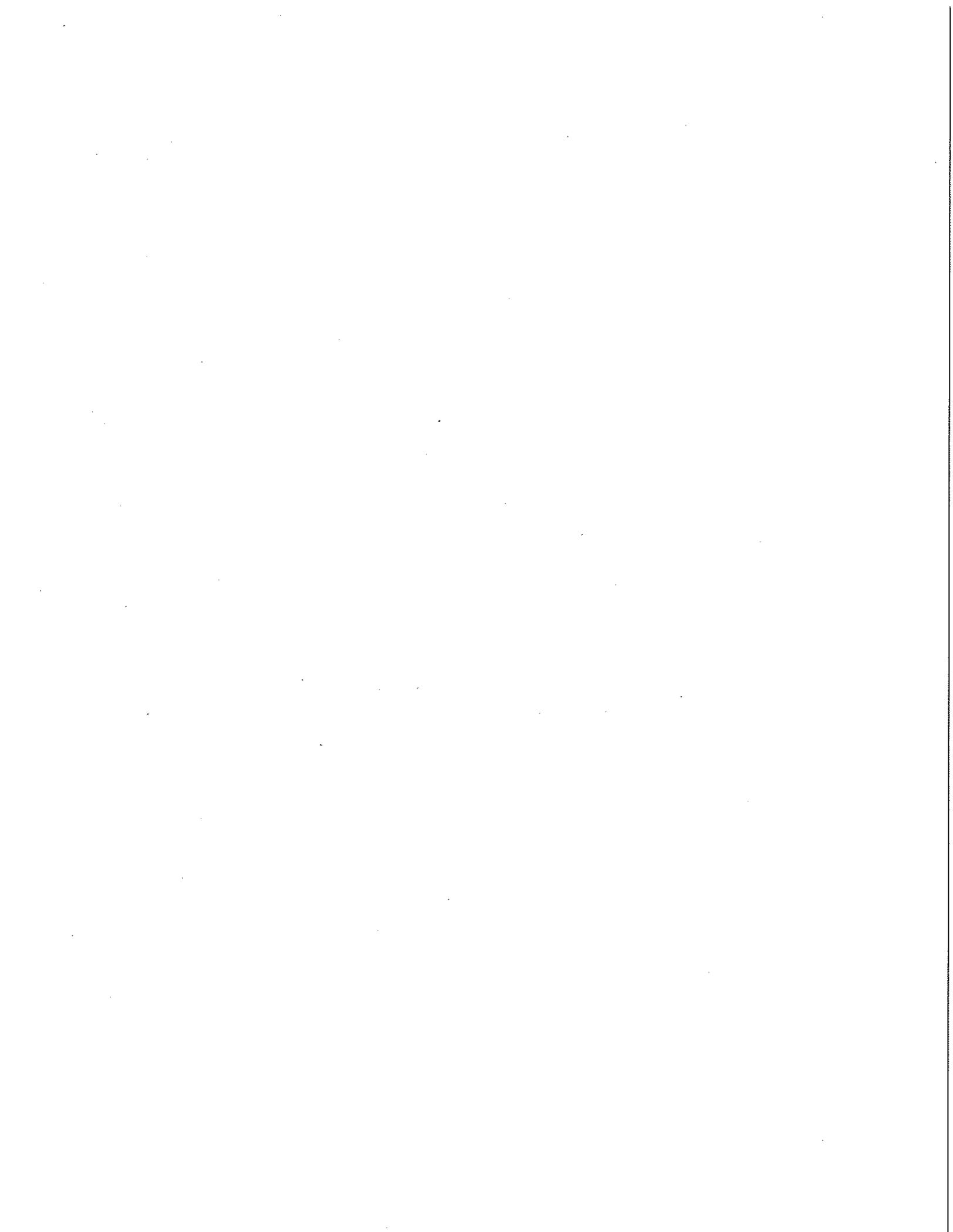


**REVIEW PLAN
FOR CAP SECTION 103 PROJECTS**

GOLOVIN, ALASKA

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1. PURPOSE AND REQUIREMENTS

a. **Purpose.** This Review Plan defines the scope and level of peer review for the Golovin, Alaska Section 103 Storm Damage Reduction project decision document.

Section 103 of the Rivers and Harbors Act of 1962, as amended, is part of the Continuing Authorities Program (CAP) which authorizes the U.S. Army Corps of Engineers (USACE) to study, adopt and construct beach erosion control (coastal storm damage reduction) projects. The CAP focuses on water resource related projects of relatively smaller scope, cost and complexity. Traditional USACE civil works projects are of wider scope and complexity and are specifically authorized by Congress. The CAP is a delegated authority to plan, design, and construct certain types of water resource and environmental restoration projects without specific Congressional authorization.

Additional Information on this program can be found in Engineering Regulation 1105-2-100, Planning Guidance Notebook, Appendix F, Amendment #2, 31 Jan 2007.

b. **Applicability.** This Pacific Ocean Division (POD) model review plan is applicable to those Section 103 project decision documents that do not require an Independent External Peer Review (IEPR).

c. References

(1) Engineering Circular (EC) 1165-2-209, Civil Works Review Policy, 31 Jan 2010, and Change 1, 31 Jan 2012

(2) Director of Civil Works' Policy Memorandum #1, Continuing Authority Program Planning Process Improvements, 19 Jan 2011

(3) EC 1105-2-412, Assuring Quality of Planning Models, 31 Mar 2010

(4) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 Sep 2006

(5) ER 1105-2-100, Planning Guidance Notebook, Appendix F, Continuing Authorities Program, Amendment #2, 31 Jan 2007

(6) ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 Nov 2007

(7) Project Management Plan (PMP)

(8) POD and/or Alaska District Quality Management Plan(s)

d. **Requirements.** This POD Model Review Plan was developed in accordance with EC 1165-2-209, 31 Jan 2010 and Director of Civil Works' Policy Memorandum#1, 19 Jan 2011, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works

CAP products by providing a seamless process for review of all Civil Works projects during the Feasibility Phase. The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. In addition to these levels of review, CAP decision documents are subject to cost engineering review and certification (per EC 1165-2-209) and Director of Civil Works' Policy Memorandum #1, and the Value Management Plan requirements in the PMBP REF 8023G and the ER 11-1-321, Change 1.

2. REVIEW MANAGEMENT ORGANIZATION (RMO) COORDINATION

The RMO is responsible for managing the overall peer review effort described in this review plan. The RMO for this Section 103 decision document is POD. POD will coordinate and approve the review plan and manage the Agency Technical Review (ATR).

Upon approval by the RMO, Alaska District will post the approved review plan on its public website. A copy of the approved review plan (and any updates) will be provided to the Coastal Storm Damage Reduction Planning Center of Expertise (CSDR-PCX) to keep the PCX apprised of requirements and review schedules.

3. STUDY INFORMATION

a. Decision Document. The Golovin, Alaska, Section 103 Storm Damage Reduction project decision document will be prepared in accordance with ER 1105-2-100, Appendix F, Amendment #2, 31 Jan 2007. The approval level of the decision document (if policy compliant) is POD. An Environmental Assessment (EA) will be prepared with the decision document.

b. Study/Project Description. Golovin is a village located approximately 70 miles east of Nome and 470 mile northwest of Anchorage. The village is primarily situated on a point of land that bisects Golovnin Bay and Golovnin Lagoon (spellings accurate). Storm events have historically caused coastal flooding on the low-lying spit. In 2005, Amuktoolik Road was raised to provide a measure of protection against surge events and currently provides protection against a storm with a 5-year recurrence level. This project seeks to further raise the road and other roads to provide protection against a storm with a higher recurrence level. The length of road that is raised varies by alternative but should fall between 3,000 and 4,500 feet. Programmatic level project costs identified in the Preliminary CAP Fact Sheet were \$1.9 million. The Chinik Eskimo Community is the non-federal sponsor. No policy waivers are anticipated at this time.

c. In-Kind Contributions. Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQC and ATR, similar to any products developed by USACE. Golovin is a remote location. Obtaining cost-effective support for acquiring data and supporting public meetings is difficult. The District will rely upon the capability of the tribe to provide the facilities and services described as in-kind contributions in the PMP. Products submitted by the non-Federal sponsor will be reviewed in accordance with EC 1165-2-209.

4. DISTRICT QUALITY CONTROL

All decision documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC prior to ATR. DQC is an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the PMP. The Alaska District shall manage DQC.

a. Documentation of DQC. Documentation of DQC activities is required and should be in accordance with the Quality Management Plans of the Alaska District and POD.

b. Products to Undergo DQC. All decision documents, including cost estimates are to be prepared in accordance with the Alaska District Quality Management Plan.

c. Required DQC Expertise. DQC reviewers should have a minimum of 4 years experience in developing feasibility studies for Section 103 projects and construction of storm damage reduction measures.

5. AGENCY TECHNICAL REVIEW

ATR is mandatory for all decision documents (including supporting data, analyses, environmental compliance documents, etc.). The objective of ATR is to ensure consistency with established criteria, guidance, procedures, and policy. The ATR will assess whether the analyses presented are technically correct and comply with published USACE guidance, and that the document explains the analyses and results in a reasonably clear manner for the public and decision makers. ATR is managed within USACE by the designated RMO and is conducted by a qualified team from outside the Alaska District that is not involved in the day-to-day production of the project/product. ATR teams will be comprised of senior USACE personnel and may be supplemented by outside experts as appropriate. The ATR team lead will be from outside POD.

a. Products to Undergo ATR. ATR will be performed throughout the study in accordance with the Alaska District and POD Quality Management Plans. The ATR shall be documented and discussed at the Alternative Formulation Briefing (AFB) milestone. Certification of the ATR will be provided prior to the District Commander signing the final report. Products to undergo ATR include the draft and final Feasibility Report and Environmental Assessment for the Golovin Section 103 project.

b. Required ATR Team Expertise.

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional preferably with experience in preparing Section 103 decision documents and conducting ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process. Typically, the ATR lead will also serve as a reviewer for a specific discipline (such as planning, economics, environmental resources, etc). The ATR Lead MUST be from outside POD
Planning	The planning reviewer should be a senior water resources planner with experience in planning related to storm damage reduction studies.
Economics	The economics reviewer should be a senior economist with experience in economic analysis related to storm damage reduction studies.
Environmental Resources	The environmental reviewer should be a senior NEPA expert. They should have a working knowledge of NEPA requirements related to coastal storm damage reduction studies.
Cultural Resources	The cultural resource reviewer is typically a senior archaeologist with experience in the customs of the indigenous people of the area. If such a reviewer cannot be located, then the reviewer should be a senior archaeologist with experience in coordinating with indigenous peoples.
Coastal Engineering	The coastal engineering reviewer should be a senior engineer with experience in designing coastal storm damage reduction measures.
Geotechnical Engineering	The geotechnical engineering reviewer should be a senior engineer with experience in designing coastal storm damage reduction measures.
Cost Engineering	The cost engineering reviewer will be the Cost Engineering Directory of Expertise (DX) Staff or Cost Engineering DX Pre-Certified Professional with experience in preparing cost estimates for storm damage reduction studies.
Real Estate	The real estate reviewer should be a senior real estate expert with experience in developing real estate plans for civil works projects.

The ATR team members and brief descriptions of their credentials will be included in Attachment 1 once they are selected.

c. Documentation of ATR. DrChecks review software will be used to document all ATR comments, responses and associated resolutions accomplished throughout the review process. Comments should be limited to those that are required to ensure adequacy of the product. The four key parts of a quality review comment will normally include:

(1) The review concern – identify the product’s information deficiency or incorrect application of policy, guidance, or procedures;

(2) The basis for the concern – cite the appropriate law, policy, guidance, or procedure that has not been properly followed;

(3) The significance of the concern – indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest, or public acceptability; and

(4) The probable specific action needed to resolve the concern – identify the action(s) that the reporting officers must take to resolve the concern.

In some situations, especially addressing incomplete or unclear information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks will include the text of each ATR concern, the Project Delivery Team (PDT) response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the Alaska District, POD, and HQUSACE), and the agreed upon resolution. If an ATR concern cannot be satisfactorily resolved between the ATR team and the PDT, it will be elevated to the vertical team for further resolution in accordance with the policy issue resolution process described in either ER 1110-2-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution.

At the conclusion of each ATR effort, the ATR team will prepare a Review Report summarizing the review. Review Reports will be considered an integral part of the ATR documentation and shall:

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and

- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A Statement of Technical Review should be completed, based on work reviewed to date, for the AFB, draft report, and final report. A sample Statement of Technical Review is included in Attachment 2.

6. INDEPENDENT EXTERNAL PEER REVIEW

IEPR may be required for decision documents under certain circumstances. IEPR is the most independent level of review, and is applied in cases that meet certain criteria where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of USACE is warranted. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR:

- Type I IEPR. Type I IEPR reviews are managed outside the USACE and are conducted on project studies. Type I IEPR panels assess the adequacy and acceptability of the economic and environmental assumptions and projections, project evaluation data, economic analysis, environmental analyses, engineering analyses, formulation of alternative plans, methods for integrating risk and uncertainty, models used in the evaluation of environmental impacts of proposed projects, and biological opinions of the project study. Type I IEPR will cover the entire decision document or action and will address all underlying engineering, economics, and environmental work, not just one aspect of the study.

All CAP projects are excluded from Type I IEPR except Section 205 and Section 103 projects or those projects that include an EIS or meet the mandatory triggers for Type I IEPR as stated in EC 1165-2-209. Exclusions from Type I IEPR for Section 205 and Section 103 projects will be approved on a case by case basis by the POD Commander, based upon a risk informed decision process as outlined in EC 1165-2-209 and may not be delegated.

- Type II IEPR. Type II IEPR, or Safety Assurance Review (SAR), are managed outside the USACE and are conducted on design and construction activities for hurricane, storm, and flood risk management projects or other projects where existing and potential hazards pose a significant threat to human life. Type II IEPR panels will conduct reviews of the design and construction activities prior to initiation of physical construction and, until construction activities are completed, periodically thereafter on a regular schedule. The reviews shall consider the adequacy, appropriateness, and acceptability of the design and construction activities in assuring public health safety and welfare.

For Section 14, 107, 111, 204, 206, 208 and 1135 decision documents prepared under this POD Model Review Plan, Type II IEPR is not anticipated to be required in the design and implementation phase, but this will need to be verified and documented in the review plan prepared for the design and implementation phase of the project.

A Type I and Type II IEPR will not be required for this Section 103 decision document (Feasibility Phase) based on the following factors and criteria stated in EC 1165-2-209.

- The project does not require an EIS.
- The life safety consequences and risks for this project will be no greater than those expected conditions experienced under the “Without Project Conditions”. The historical records show there are no life/safety issues related to the features currently protecting Golovin. The alternatives under consideration will not increase the life safety consequences of those features and project failure is not expected to pose a significant threat to human life/safety.
- The project is not controversial.
- The project has no more than negligible adverse impacts on scarce or unique cultural or historic resources.
- The project has no significant adverse impacts on fish and wildlife species and their habitat.
- The project has no more than a negligible adverse impact on species listed as endangered or threatened species under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) or the critical habitat of such species designated under such Act.
- The project has no significant local, State or Federal interagency interest related to potential adverse impacts on the environment, cultural or other resources.
- The project is for an activity for which there is ample experience within USACE and industry.
- The Federal action is not justified by life safety.
- The project does not involve the use of innovative materials or techniques where the engineering is based on novel methods, does not present complex challenges for interpretations, does not contain precedent-setting methods or models, or does not present conclusions that are likely to change prevailing practices.
- The project design does not require redundancy, resiliency, and/or robustness.
- The project does not have unique construction sequencing, or a reduced or overlapping design construction schedule.

- The risk associated with this project is the construction cost. Fluctuations in the construction cost index are factored into the determination of the project cost contingency. Other factors such as potential weather delays are also included.
- This study will contain no influential scientific information and will be conducted using standard and routine analyses typically associated with shore protection projects.
- There has been no request by the Governor for a peer review by independent experts
- The total project costs do not exceed \$45 million dollars.

7. POLICY AND LEGAL COMPLIANCE REVIEW

All decision documents will be reviewed throughout the study process for their compliance with law and policy. Guidance for policy and legal compliance reviews is addressed in Appendix H, ER 1105-2-100. These reviews culminate in determinations that the recommendations in the reports and the supporting analyses and coordination comply with law and policy, and warrant approval or further recommendation to higher authority by the POD Commander. DQC and ATR augment and complement the policy review processes by addressing compliance with pertinent published Army policies, particularly policies on analytical methods and the presentation of findings in decision documents.

8. COST ENGINEERING DIRECTORY OF EXPERTISE (DX) REVIEW AND CERTIFICATION

For CAP projects, ATR of the costs may be conducted by pre-certified district cost personnel within the region or by the Walla Walla Cost Engineering DX. The pre-certified list of cost personnel has been established and is maintained by the Cost Engineering DX at: <https://kme.usace.army.mil/EC/cost/CostAtr/default.aspx>. The cost ATR member will coordinate with the Cost Engineering DX for execution of cost ATR and cost certification. The Cost Engineering DX will be responsible for final cost certification and may be delegated at the discretion of the Cost Engineering DX.

9. MODEL CERTIFICATION AND APPROVAL

a. Planning Models. The approval of planning models under EC 1105-2-412 is not required for CAP projects. The POD Commander is responsible for assuring models for all planning activities are technically and theoretically sound, compliant with USACE policy, computationally accurate, and based on reasonable assumptions. Planning models are defined as any models and analytical tools that planners use to define water resources management problems and opportunities, to formulate potential alternatives to address the problems and take advantage of the opportunities, to evaluate potential effects of alternatives and to support decision making. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

The planning models for use in this study are undetermined as of the approval date of this review plan. Brief descriptions of the applicable planning models will be included in this review plan once they are identified.

b. Engineering Models. The responsible use of well-known and proven USACE developed and commercial engineering software will continue and the professional practice of documenting the application of the software and modeling results will be followed. As part of the USACE Scientific and Engineering Technology (SET) Initiative, many engineering models have been identified as preferred or acceptable for use on Corps studies and these models should be used whenever appropriate. The selection and application of the model and the input and output data is still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

The table below provides details on the cost engineering model that will likely be used during the development of the feasibility report.

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification/Approval
Microcomputer Aided Cost Engineering System (MCACES) 2 nd Generation (MII)	The MCACES MII construction cost estimating software, developed by Building Systems Design Inc., is a tool used by cost engineers to develop and prepare all Civil Works cost estimates. Using the features in this model, cost estimates are prepared uniformly allowing cost engineers throughout USACE to function as one virtual cost engineering team.	Cost Engineering DX Required Model

10. REVIEW SCHEDULES AND COSTS

a. ATR Schedule and Cost. The ATR for the Golovin, Alaska Storm Damage Reduction Section 103 Project will be accomplished in accordance with the cost and schedule in the Project Management Plan. As of the approval date of this Review Plan, the ATR is scheduled for March 2013 and may be subject to change. The estimated cost of the ATR is \$10,000.

b. Model Review Schedule and Cost. For CAP decision documents prepared under the POD Model Review Plan, use of existing certified or approved planning models is encouraged. Where uncertified or unapproved model are used, review of the model for use will be accomplished through the ATR process. The ATR team should apply the principles of EC 1105-2-412 during the ATR to ensure the model is theoretically and computationally sound, consistent with USACE policies, and adequately documented. If specific uncertified models are identified for repetitive use within a specific district or region, the appropriate PCX, MSC(s), and home District(s) will identify a unified approach to seek certification of these models.

11. PUBLIC PARTICIPATION

State and Federal resource agencies may be invited to participate in the study covered by this review plan as partner agencies or as technical members of the PDT, as appropriate. Agencies

with regulatory review responsibilities will be contacted for coordination as required by applicable laws and procedures. The ATR team will be provided copies of public and agency comments. This review plan and all decision documents will be posted on the Alaska District's website for public review.

12. REVIEW PLAN APPROVAL AND UPDATES

The POD Commander is responsible for approving this review plan and ensuring that use of the POD CAP Model Review Plan is appropriate for the specific project covered by the plan. The review plan is a living document and may change as the study progresses. The Alaska District is responsible for keeping the review plan up to date. Minor changes to the review plan since the last POD approval are documented in Attachment 3. Significant changes to the review plan (such as changes to the scope and/or level of review) should be re-approved by POD following the process used for initially approving the plan. Significant changes may result in POD determining that use of the POD CAP Model Review Plan is no longer appropriate. In these cases, a project specific review plan will be prepared and approved in accordance with EC 1165-2-209 and Director of Civil Works' Policy Memorandum #1. The latest version of the review plan, along with POD's approval memorandum, will be posted on the Alaska District's webpage.

13. REVIEW PLAN POINTS OF CONTACT

Public questions and/or comments on this review plan can be directed to the following points of contact:

Alaska District POC, Bruce Sexauer, (907) 753-5619
Pacific Ocean Division POC, Russell Iwamura, (808) 835-4625

ATTACHMENT 1: TEAM ROSTERS

Golovin, Alaska Storm Damage Reduction Section 103 Study PDT

The Project Delivery Team is comprised of the following individuals:

Project Manager	David Williams
Planning	Jason Norris
Environmental Resources	Christopher Floyd
Economics	Emily Morrison
Real Estate	Carmen Osmond
Geotechnical Engineering	Tu Nguyen
Coastal Engineering	Nathan Epps
Cost Engineering	Albert Arruda
Value Engineering	Don Tybus
Survey	Tom Sloan
Office of Counsel	Robert Stolzman

DQC Team

DQR Team Leader	Bruce Sexauer
Cost Engineering	Karl Harvey
Hydraulics and Hydrology	Ken Eisses
Environmental Resources	Michael Salyer
Economics	Lorraine Cordova
Real Estate	Pat Riley
Survey	Tom Sloan

Agency Technical Review Team

An ATR team will be constructed based upon the expertise and qualifications provided in paragraph 5.b. of this Review Plan.

Division Points of Contact

Name	Title	Telephone
Tim Young	POD CAP Manager	808-835-4627
Linda Hihara-Endo	POD Civil Works Planning Team Leader	808-835-4621

**ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR
DECISION DOCUMENTS**

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the Storm Damage Reduction Section 103 decision document for Golovin, Alaska. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-209 and Director of Civil Works' Policy Memorandum #1. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrCheckssm.

SIGNATURE

Name

ATR Team Leader

Office Symbol/Company

Date

SIGNATURE

David Williams

Project Manager

Alaska District

Date

SIGNATURE

Russell Iwamura

Review Management Office Representative

Pacific Ocean Division

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW (CONT'D)

Significant concerns and the explanation of the resolution are as follows: Describe the major technical concerns and their resolution.

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

SIGNATURE

David Frenier
Chief, Engineering Division
CEPOA-EN

Date

SIGNATURE

Stephen Boardman
Chief, Project Management Civil
CEPOA-PM-C

Date

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS

<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NED	National Economic Development
ASA(CW)	Assistant Secretary of the Army for Civil Works	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CAP	Continuing Authorities Program	O&M	Operation and maintenance
CSDR	Coastal Storm Damage Reduction	OMB	Office and Management and Budget
DPR	Detailed Project Report	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DQC	District Quality Control/Quality Assurance	OEO	Outside Eligible Organization
DX	Directory of Expertise	OSE	Other Social Effects
EA	Environmental Assessment	PCX	Planning Center of Expertise
EC	Engineer Circular	PDT	Project Delivery Team
EIS	Environmental Impact Statement	PAC	Post Authorization Change
EO	Executive Order	PMP	Project Management Plan
ER	Engineer Regulation	PL	Public Law
FDR	Flood Damage Reduction	QMP	Quality Management Plan
FEMA	Federal Emergency Management Agency	QA	Quality Assurance
FRM	Flood Risk Management	QC	Quality Control
FSM	Feasibility Scoping Meeting	RED	Regional Economic Development
GRR	General Reevaluation Report	RMC	Risk Management Center
Home District/MSD	The District or MSC responsible for the preparation of the CAP decision document.	RMO	Review Management Organization
HQUSACE	Headquarters, U.S. Army Corps of Engineers	RTS	Regional Technical Specialist
IEPR	Independent External Peer Review	SAR	Safety Assurance Review
ITR	Independent Technical Review	USACE	U.S. Army Corps of Engineers
LRR	Limited Reevaluation Report	WRDA	Water Resources Development Act
MSC	Major Subordinate Command		

