MEMORANDUM FOR COMMANDER HONOLULU ENGINEER DISTRICT (CEPOH-PP-C/CINDY BARGER), BUILDING 230, FORT SHAFTER, HI 96858-5440

SUBJECT: Review Plan Approval for the F-1 Fuel Pier Continuing Authorities Program (CAP) Section 103 Feasibility Report, Island of Guam, Shore Protection Project

1. References:

2. The enclosed Review Plan (reference 1.c.) for the F-1 Fuel Pier, Guam, shore protection 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 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. GUNTER
Colonel, EN
Acting Commander
REVIEW PLAN

F-1 FUEL PIER SHORE PROTECTION PROJECT
GUAM

Feasibility Study
Continuing Authorities Program (CAP)
Section 103 of the Rivers and Harbors Act of 1962

U.S. Army Corps of Engineers, Honolulu District

MSC Approval Date: 20 November 2012
Last Revision Date: 19 November 2012
REVIEW PLAN

F-1 FUEL PIER SHORE PROTECTION PROJECT, GUAM

Feasibility Study

Continuing Authorities Program (CAP)
Section 103 of the Rivers and Harbors Act of 1962

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1. PURPOSE AND REQUIREMENTS

   a. Purpose. This Review Plan defines the scope and level of peer review for the F-1 Fuel Pier Shore Protection Project, Guam, Feasibility Study, Continuing Authorities Program (CAP), Section 103 Project decision document.

   Section 103 of the Rivers and Harbors Act of 1962, as amended, is one of the legislative authorities within the CAP under which the Secretary of the Army, acting through the Chief of Engineers, is authorized to plan, design, and implement certain types of water resources projects without additional project specific congressional authorization. CAP projects are water resource related projects of smaller scope, cost, and complexity than typical U.S. Army Corps of Engineers (USACE) civil works projects which require specific authorization by Congress. Under the delegated authority of Section 103, USACE is authorized to plan, design and construct small shore and beach restoration and protection projects without project specific congressional authorization.

   This Review Plan was developed using the USACE National Planning Center of Expertise (PCX) review plan template dated 15 June 2011.

   b. References.


   (2) EC 1105-2-412, Assuring Quality of Planning Models, 31 March 2011.

   (3) Engineer Regulation (ER) 1110-1-12, Quality Management, 30 September 2006.


   (9) USACE Honolulu District (POH) Civil Works Review Policy (ISO CEPOH-C_12203), 1 November 2010.
c. Requirements. This Review Plan was developed in accordance with EC 1165-2-209, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and operation, maintenance, repair, replacement and rehabilitation (OMRR&R). 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 the Director of Civil Works Policy Memorandum #1 and the Value Management Plan requirements in the Project Management Business Process Reference 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 CAP decision documents is typically the home Major Subordinate Command (MSC), USACE POD. The Coastal Storm Damage Reduction (CSDR) PCX is available to provide advice and may serve as the RMO under appropriate agreements with POD. The RMO for the peer review effort described in this Review Plan is POD.

The RMO will coordinate with the Cost Engineering Mandatory Center of Expertise (MCX) as needed to ensure the appropriate expertise is included on the review teams to assess the adequacy of cost estimates, construction schedules and contingencies.

3. STUDY INFORMATION

a. Decision Document. The F-1 Fuel Pier Shore Protection Project, Guam, decision document will be prepared in accordance with ER 1105-2-100, Appendix F. The approval level of the decision document (if policy compliant) is POD. An integrated feasibility report and Environmental Assessment (EA) will be developed for the project.

b. Study/Project Description.

Location: Apra Harbor is located facing the Philippine Sea on the west central coast of Guam. The harbor is located approximately 5 miles from the capital city of Hagatna. The F-1 Fuel Pier is located on Cabras Island in the commercial port area, at the east end of the outer Apra Harbor on a peninsula known as Southwest Point. (Figure 1).
Project Sponsor: The non-Federal Sponsor is the Port Authority of Guam.

Background: The area, commonly referred to as the F-1 Fuel Pier, contains two 600,000 gallon fuel tanks surrounded by a Concrete Masonry Unit (CMU) containment wall, an oil/water separator, ancillary equipment, a pile supported pier, dolphins, and connecting walkways. The fuel pier facilities were severely damaged by typhoons Omar in 1992 and Paka in December 1997. Damages to the F-1 Fuel Pier occurred when large waves overtopped the containment wall and dislodged armor stones on all three of the exposed sides of the petroleum tanks. Large
gaping holes appeared and core material filtered out of the foundation. The area is periodically subjected to adverse severe wave action during major storms and typhoons. If the erosion problem is not addressed, the F-1 Fuel Pier will eventually fail and adjacent infrastructure will be damaged resulting in potentially severe economic and environmental consequences.

Project Objective: The project objective is to mitigate erosion on the three exposed sides of the petroleum tanks at the F-1 Fuel Pier to reduce the risk to facilities.

Alternatives: In addition to the no action alternative, the Project Delivery Team (PDT) has identified that the alternatives all include the placement of armor stone around the entire perimeter of the peninsula but vary in the return period stone size. The PDT is evaluating and comparing which return period stone size would be most appropriate to address the problems at the F-1 Fuel Pier location.

Estimated Construction Costs: The estimated construction costs for the alternatives range from $3 - 4 million.

c. Factors Affecting the Scope and Level of Review. As a CAP project, the project risks are minimal. Environmental impacts are anticipated to be less than significant. Plan formulation is not expected to be challenging or novel. The project is not anticipated to require redundancy, resiliency and/or robustness, unique construction sequencing, or reduction in overlapping design construction schedules. There has been no request by the Governor of Guam for peer review by independent experts, nor is there significant public dispute over any aspect of the proposed project. The primary concern for this project is potential life safety issues, associated with CSDR projects.

With the active use of the F-1 Fuel Pier and surrounding areas, there is a potential for life safety issues associated with coastal storm damage reduction. Consistent with the Director of Civil Works Policy Memorandum #1, Section 103 projects require an IEPR unless risk to life safety can be documented as minimal. The PDT is assuming that an IEPR will be required for this project. Consistent with EC 1165-2-209, Mr. Todd Barnes, POH Chief of Engineering and Construction, concurs with the assessment that there is potential life safety issues at this stage in plan formulation. If life safety issues are able to be minimized during the formulation of the Tentatively Selected Plan, the PDT will seek an exclusion from an IEPR consistent with the Director of Civil Works Policy Memorandum #1, Paragraph 3.b.

d. In-Kind Contributions. Products and analyses provided by non-Federal sponsors as work-in-kind services are subject to DQC, ATR, and IEPR. There are no in-kind services being proposed by the non-Federal sponsor for this project.

4. DISTRICT QUALITY CONTROL (DQC)

All decision documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC. DQC is an internal review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the
PMP. POH shall manage DQC. Documentation of DQC activities is required and should be in accordance with the Quality Manual of POH and POD.

a. **Documentation of DQC.** Consistent with the POH Quality Manual, DQC will be documented using the POH DQC review table. When all comments have been addressed and back checked, the DQC lead will sign a DQC certification in compliance with the POH Quality Manual. The DQC comments and responses will be provided for the ATR team at each review.

b. **Products to Undergo DQC.** The following products will be subject to DQC:

- Draft and final integrated feasibility report/EA.
- All technical reports and appendices developed in support of the integrated feasibility study/EA.
- The draft and final EA decision.

c. **Required DQC Expertise.** The following expertise is needed for DQC:

- CSDR plan formulation;
- Economist with expertise in CSDR projects;
- Coastal engineering with expertise with tropical hurricane and Pacific storms; and
- Environmental specialist with expertise in Civil Works environmental compliance, including National Environmental Policy Act (NEPA), Clean Water Act (CWA) Section 404(b)(1) alternatives analysis, and Endangered Species Act (ESA) and Essential Fish Habitat (EFH) consultations.

5. **AGENCY TECHNICAL REVIEW (ATR)**

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 POD, and is conducted by a qualified team from outside POH 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.** Because this project is limited in scope and complexity, the PDT anticipates an ATR is only needed for the draft feasibility/report and EA. The following products will be subject to ATR:
• Draft integrated feasibility report/EA.

• All technical reports and appendices developed in support of the integrated feasibility study/EA.

b. **Required ATR Team Expertise.** The following ATR expertise is required for this project. Because the project is small, where possible ATR team members will address multiple disciplines and emphasis. The PM will work with the RMO, vertical team and other appropriate centers of expertise to identify the final make-up of the ATR team and identify the ATR team leader. Once identified, the ATR team members for this study and a brief description of their credentials will be added in Attachment 1.

**Table 1: ATR Required Expertise**

<table>
<thead>
<tr>
<th>ATR Team Members/Disciplines</th>
<th>Expertise Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR Lead</td>
<td>The ATR lead should be a senior professional with extensive experience in preparing Civil Works decision documents and conducting an ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process. The ATR lead may also serve as a reviewer for a specific discipline (such as planning, economics, environmental resources, etc).</td>
</tr>
<tr>
<td>Planning</td>
<td>The planning reviewer should be a senior water resources planner with experience in coastal storm damage reduction projects.</td>
</tr>
<tr>
<td>Economics</td>
<td>The economic reviewer should be a senior economist with experience in coastal storm damage reduction projects.</td>
</tr>
<tr>
<td>Environmental Resources</td>
<td>The environmental reviewer should be a senior environmental specialist with experience in coastal storm damage reduction projects, Civil Works environmental compliance, including NEPA, CWA Section 404(b) (1) alternatives analysis, ESA, and EFH consultations. POH anticipates that the project may affect but is not likely to adversely affect ESA species or designated EFH.</td>
</tr>
<tr>
<td>Coastal Engineering</td>
<td>Coastal engineering reviewer should be a senior coastal engineer with expertise with tropical hurricane and pacific storms.</td>
</tr>
<tr>
<td>Cost Engineering</td>
<td>The cost engineering reviewer should be a senior cost engineer with expertise in coastal storm damage reduction and CAP projects.</td>
</tr>
</tbody>
</table>
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 where information is incomplete or unclear, 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 PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes POH, POD, and possibly the CSDR-PCX 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 1110-1-12 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 draft report, and final report. A sample Statement of Technical Review is included in Attachment 2.

6. INDEPENDENT EXTERNAL PEER REVIEW (IEPR)

IEPR may be required for decision documents under certain circumstances. IEPR is the most independent level of review and is applied 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 to assess whether an IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines. The IEPR panel will represent 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. For decision documents where a Type II IEPR (Safety Assurance Review (SAR)) is anticipated during project implementation, safety assurance shall also be addressed during the Type I IEPR per EC 1165-2-209.

• Type II IEPR. Type II IEPR, or SAR, is managed outside the USACE and is 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.

**a. Decision on IEPR.** As a CSDR project, there is a potential for life safety issues related to storm damage reduction projects with port activity and other structures in close proximity to the shoreline. Consistent with the Director of Civil Works Policy Memorandum #1 dated 19 January 2011, Section 103 studies have the potential for life safety issues and require a Type I IEPR. As the tentatively selected plan is formulated, POH may determine that life safety issues are minimal. In this event, POH will coordinate with POD and the CSDR-PCX and seek an appropriate waiver from the IEPR.

The project does not meet any of the other criteria for Type I IEPR. The project is not anticipated to require an Environmental Impact Statement (EIS). The project will not produce influential scientific information. There have been no requests for an IEPR from a head of a Federal or state agency charged with reviewing the project. There are no innovative materials or techniques proposed. The project design will not require redundancy, resiliency, and/or robustness. The project does not have unique construction sequencing or a reduced or overlapping design construction schedule.

Since the project is a CSDR project, a Type II IEPR is anticipated on the design and construction of this project. Safety Assurance will also be addressed during the Type I IEPR per Paragraph 2.c. (3) of Appendix D of EC 1165-2-209.

**b. Products to Undergo Type I IEPR.** The draft integrated feasibility study/EA and draft EA decision and supporting technical documentation will undergo a Type I IEPR. The IEPR will be scheduled with the public review of the report.

**c. Required Type I IEPR Panel Expertise.** The following IEPR expertise is required for this project. Because the project is small, where possible IEPR panel members will address multiple disciplines and emphasis. The PM will work with the RMO, vertical team and other appropriate centers of expertise to identify the final make-up of expertise required for the IEPR team. Once identified, the IEPR panel members for this study and a brief description of their credentials will be added in Attachment 1.

<table>
<thead>
<tr>
<th>IEPR Panel Members/Disciplines</th>
<th>Expertise Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>The Economics Panel Member should be a senior economist with experience in coastal storm damage reduction projects.</td>
</tr>
<tr>
<td>Environmental</td>
<td>The Environmental Panel Member should have experience in NEPA, CWA Section 404(b) (1) alternatives analysis; and</td>
</tr>
</tbody>
</table>
IEPR Panel Members/Disciplines | Expertise Required
--- | ---
ESA/EFH | POH anticipates that the project may affect but is not likely to adversely affect ESA species or designated EFH.
Engineering | The Engineering Panel Member should have experience in coastal engineering in Pacific tropical systems and knowledge of coastal storm damage reduction measures.

d. **Documentation of Type I IEPR.** The IEPR panel will be selected and managed by an Outside Eligible Organization (OEO) per EC 1165-2-209, Appendix D. Panel comments will be compiled by the OEO and should address the adequacy and acceptability of the economic, engineering and environmental methods, models, and analyses used. IEPR comments should generally include the same four key parts as described for ATR comments in Section 5.c above. The OEO will prepare a final Review Report that will accompany the publication of the final decision document and shall:

- 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; 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.

The final Review Report will be submitted by the OEO no later than 60 days following the close of the public comment period for the draft decision document. USACE shall consider all recommendations contained in the Review Report and prepare a written response for all recommendations adopted or not adopted. The final decision document will summarize the Review Report and USACE response. The Review Report and USACE response will be made available to the public, including through electronic means on the internet.

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 MANDATORY CENTER OF EXPERTISE (MCX) 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 MCX. The pre-certified list of cost personnel has been established and is maintained by the Cost MCX at: https://kme.usace.army.mil/EC/cost/CostAtr/default.aspx. The cost ATR member will coordinate with the Cost MCX for execution of cost ATR and cost certification. The Cost MCX will be responsible for final cost certification and may be delegated at the discretion of the Cost MCX.

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).

It is anticipated that compensatory mitigation will not be required for this project. Therefore, no ecosystem output model or evaluation will be needed. A site specific model will be used for economic analysis. The site specific economic model will be reviewed as part of the ATR. The following planning model is anticipated to be used in the development of the decision document:

Table 3: Planning Model and Certification/Approval Status

<table>
<thead>
<tr>
<th>Model Name and Version</th>
<th>Brief Description of the Model and How It Will Be Applied in the Study</th>
<th>Certification / Approval Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-1 Fuel Pier Site Specific Economic Spreadsheet model</td>
<td>A customized, excel spreadsheet model will be developed specifically for Section 103s that will focus on with- and without-project coastal storm damage reduction. Building the frequency-damage relationship for the buildings and coastline impacts from a suite of various storm intensities will be the primary function of the model. It will be calibrated with historical damages where such data exist. In addition to this customized spread sheet, Institute of Water Resources (IWR) Plan Annualizer in the IWR Planning Suite is the certified model that will be used to</td>
<td>Approval to be conducted during ATR.</td>
</tr>
</tbody>
</table>
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 USACE 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 following engineering models are anticipated to be used in the development of the decision document:

<table>
<thead>
<tr>
<th>Model Name and Version</th>
<th>Brief Description of the Model and How It Will Be Applied in the Study</th>
<th>Certification / Approval Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSsim</td>
<td>CSsim is developed by USACE Engineering Research and Development Center (ERDC) as a productized version of BWsym. CSsim models a breakwater structures evolution over a lifecycle of storms to estimate anticipated future damages. CSsim will be used to estimate the level of repair required during the lifecycle of various return period storm designs.</td>
<td>ERDC CHL Developed Model (Beta Phase)</td>
</tr>
<tr>
<td>Microcomputer Aided Cost Engineering System (MCACES) 2nd Generation (MII)</td>
<td>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 USACE Civil Works cost estimates. Using the features in this system, cost estimates are prepared uniformly allowing cost engineering throughout USACE to function as one virtual cost engineering team.</td>
<td>Cost Engineering DX Required Model</td>
</tr>
</tbody>
</table>

10. REVIEW SCHEDULES AND COSTS

a. ATR Schedule and Cost. The ATR for this study will be accomplished in accordance with the cost and schedule in the PMP. As of the approval date of this Review Plan, the ATR is scheduled as follows:
b. **Type I IEPR Schedule and Cost.** The IEPR for this study will be accomplished in accordance with the cost and schedule in the PMP. As of the approval date of this Review Plan, the IEPR is scheduled as follows:

- Draft report review – September 2014.
- Estimated Cost - $75,000.

Pursuant to Section 2034 of the Water Resources Development Act (WRDA) of 2007, this amount is 100% federally funded.

- Estimated Cost of District and CSDR-PCX Coordination of the IEPR - $40,000.
  This estimate was developed using the Type I IEPR Standard Operating Procedure table provided by the PCXs. This amount is cost-shared between USACE and the non-Federal Sponsor.

c. **Model Certification/Approval Schedule and Cost.** There is no cost for this item as model certification or approval is not required. The study specific model will be reviewed as part of the ATR.

### 11. PUBLIC PARTICIPATION

A Public Involvement Plan (PIP) will be developed for the feasibility study to guide the public participation process. Small group meetings with key stakeholders and resource agencies will be conducted to collect specific information relevant to study goals and objectives and provide information to key stakeholders and interest groups relevant to the study goals and objectives. A public meeting will be held to seek input on the draft report.

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.

### 12. REVIEW PLAN APPROVAL AND UPDATES

The POD Commander is responsible for approving this Review Plan. The POD Commander’s approval reflects vertical team input (involving POH, POD, and the CSDR-PCX) as to the appropriate scope and level of review for the decision document. Like the PMP, the Review Plan is a living document and may change as the study progresses. POH is responsible for
keeping the Review Plan up to date. Minor changes to the Review Plan since the last POD Commander approval are documented in Attachment 3. Significant changes to the Review Plan (such as changes to the scope and/or level of review) will be re-approved by the POD Commander, following the process used for initially approving the plan. The latest version of the Review Plan, along with the POD Commander’s approval memorandum, will be posted on POH’s webpage. The latest Review Plan will also be provided to CSDR-PCX and POD.

13. REVIEW PLAN POINTS OF CONTACT

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

Honolulu District
Mr. Milton Yoshimoto
Project Manager
Civil and Public Works Branch
Programs and Project Management Division
U.S. Army Corps of Engineers, Honolulu District
Building 230, Room 307
Ft. Shafter, HI 96858-5440
Telephone: (808) 835-4034

Review Management Organization/Pacific Ocean Division
Mr. Russell Iwamura
Economist
U.S. Army Corps of Engineers, Pacific Ocean Division
Building 525 CEPOD-PDC
Ft. Shafter, HI 96858-5440
Telephone: (808) 835-4625
ATTACHMENT 1: TEAM ROSTERS

Table 4: Project Delivery Team

<table>
<thead>
<tr>
<th>TASK</th>
<th>NAME</th>
<th>OFFICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager/Planner</td>
<td>Mr. Milton Yoshimoto</td>
<td>PP-C</td>
</tr>
<tr>
<td>Project Sponsor</td>
<td>Ms. Dorothy Harris</td>
<td>Port Authority of Guam</td>
</tr>
<tr>
<td>Coastal Engineer</td>
<td>Mr. Justin Goo</td>
<td>EC-T</td>
</tr>
<tr>
<td>Economist</td>
<td>Mr. Bob Finch</td>
<td>EC-T</td>
</tr>
<tr>
<td>Environmental</td>
<td>Ms. Uyen Tran</td>
<td>PP-E</td>
</tr>
<tr>
<td>Cost Engineer</td>
<td>Ms. Tracy Kazunaga</td>
<td>EC-S</td>
</tr>
<tr>
<td>Value Engineer</td>
<td>Mr. Elton Choy</td>
<td>EC-S</td>
</tr>
<tr>
<td>Real Estate</td>
<td>Mr. Mike Sakai</td>
<td>PP-R</td>
</tr>
<tr>
<td>Program Analyst</td>
<td>Mr. Craig Hashimoto</td>
<td>PP-PC</td>
</tr>
<tr>
<td>Geotechnical Engineer</td>
<td>Mr. Russell Leong</td>
<td>EC-Q</td>
</tr>
<tr>
<td>GIS Specialist</td>
<td>Ms. Sarah Falzarano</td>
<td>EC-G</td>
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<tr>
<td>Public Affairs</td>
<td>Mr. Joe Bonfiglio</td>
<td>PA</td>
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<td>Contracting</td>
<td>Mr. Ed Chambers</td>
<td>CT</td>
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<tr>
<td>Small Business</td>
<td>Ms. Catherine Yoza</td>
<td>DB</td>
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<tr>
<td>Office of Counsel</td>
<td>Ms. Lindsey Kasperowicz</td>
<td>OC</td>
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Table 5: Review Team

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<tr>
<th>TASK</th>
<th>NAME</th>
<th>DESCRIPTION OF CREDENTIALS</th>
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<tbody>
<tr>
<td>RMO</td>
<td>Mr. Russell Iwamura</td>
<td>POD</td>
</tr>
<tr>
<td>District Quality Control</td>
<td>Mr. Tom Smith</td>
<td>EC-T</td>
</tr>
<tr>
<td>ATR Team Lead</td>
<td>To Be Determined (TBD)</td>
<td>TBD</td>
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<td>Planning</td>
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<td>Environmental Resources</td>
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<td>Coastal Engineering</td>
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<td>Cost Engineering</td>
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Table 6: IEPR Team

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<td>Engineering</td>
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<tr>
<td>Environmental Resources</td>
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ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR DECISION DOCUMENTS

COMPLETION OF AGENCY TECHNICAL REVIEW

The ATR has been completed for the <type of product> for F-1 Fuel Pier Shore Protection Project, Guam. The ATR was conducted as defined in the project’s Review Plan to comply with the requirements of EC 1165-2-209. 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 customers’ needs consistent with law and existing USACE policy. The ATR also assessed the 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 DrChecks\textsuperscript{sm}.

SIGNATURE

Name
ATR Team Leader
Office Symbol/Company

Name
Project Manager
Office Symbol

Name
Architect Engineer Project Manager\textsuperscript{1}
Company, location

Name
Review Management Office Representative
Office Symbol

Name
Date

Name
Date

Name
Date
CERTIFICATION OF AGENCY TECHNICAL REVIEW

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
Name
Chief, Engineering Division
Office Symbol

Date

SIGNATURE
Name
Chief, Planning Division
Office Symbol

Date

1 Only needed if some portion of the ATR was contracted.
### ATTACHMENT 3: REVIEW PLAN REVISIONS

Table 6: Review Plan Revisions

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>Description of Change</th>
<th>Page / Paragraph Number</th>
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ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS

Table 7: Acronyms and Abbreviations

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<tr>
<th>Term</th>
<th>Definition</th>
<th>Term</th>
<th>Definition</th>
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<tbody>
<tr>
<td>AFB</td>
<td>Alternative Formulation Briefing</td>
<td>NEPA</td>
<td>National Environmental Policy Act</td>
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<tr>
<td>ASA(CW)</td>
<td>Assistant Secretary of the Army for Civil Works</td>
<td>NHPA</td>
<td>National Historic Preservation Act</td>
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<tr>
<td>ATR</td>
<td>Agency Technical Review</td>
<td>O&amp;M</td>
<td>Operation and maintenance</td>
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<tr>
<td>CSDR</td>
<td>Coastal Storm Damage Reduction</td>
<td>OMB</td>
<td>Office and Management and Budget</td>
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<tr>
<td>CWA</td>
<td>Clean Water Act</td>
<td>OMRR&amp;R</td>
<td>Operation, Maintenance, Repair, Replacement and Rehabilitation</td>
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<td>DPR</td>
<td>Detailed Project Report</td>
<td>OEO</td>
<td>Outside Eligible Organization</td>
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<tr>
<td>DQC</td>
<td>District Quality Control/Quality Assurance</td>
<td>OSE</td>
<td>Other Social Effects</td>
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<td>EA</td>
<td>Environmental Assessment</td>
<td>PCX</td>
<td>Planning Center of Expertise</td>
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<td>EC</td>
<td>Engineer Circular</td>
<td>PDT</td>
<td>Project Delivery Team</td>
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<td>EIS</td>
<td>Environmental Impact Statement</td>
<td>PAC</td>
<td>Post Authorization Change</td>
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<td>Executive Order</td>
<td>PMP</td>
<td>Project Management Plan</td>
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<td>ER</td>
<td>Engineer Regulation</td>
<td>PL</td>
<td>Public Law</td>
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<td>FDR</td>
<td>Flood Damage Reduction</td>
<td>POH</td>
<td>U.S. Army Corps of Engineers, Honolulu District</td>
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<tr>
<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
<td>POD</td>
<td>U.S. Army Corps of Engineers, Pacific Ocean Division</td>
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<td>FSM</td>
<td>Feasibility Scoping Meeting</td>
<td>QMP</td>
<td>Quality Management Plan</td>
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<tr>
<td>GRR</td>
<td>General Reevaluation Report</td>
<td>QA</td>
<td>Quality Assurance</td>
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<td>HQUSACE</td>
<td>Headquarters, U.S. Army Corps of Engineers</td>
<td>QC</td>
<td>Quality Control</td>
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<td>IEPR</td>
<td>Independent External Peer Review</td>
<td>RED</td>
<td>Regional Economic Development</td>
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<tr>
<td>ITR</td>
<td>Independent Technical Review</td>
<td>RMC</td>
<td>Risk Management Center</td>
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<td>IWR</td>
<td>Institute of Water Resources</td>
<td>RMO</td>
<td>Review Management Organization</td>
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<td>LRR</td>
<td>Limited Reevaluation Report</td>
<td>RTS</td>
<td>Regional Technical Specialist</td>
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<td>MCX</td>
<td>Mandatory Center of Expertise</td>
<td>SAR</td>
<td>Safety Assurance Review</td>
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<td>Major Subordinate Command</td>
<td>USACE</td>
<td>U.S. Army Corps of Engineers</td>
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<tr>
<td>NED</td>
<td>National Economic Development</td>
<td>WRDA</td>
<td>Water Resources Development Act</td>
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<td>NER</td>
<td>National Ecosystem Restoration</td>
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