



REPLY TO  
ATTENTION OF

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

CEPOD-PDC

6 Dec 12

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

SUBJECT: Review Plan Approval for the Saipan Lagoon Continuing Authorities Program Section 206 Feasibility Report, Island of Saipan, Commonwealth of the Northern Mariana Islands (CNMI), Aquatic Ecosystem Restoration 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 Saipan Lagoon Section 206 Feasibility Report, Island of Saipan, CNMI, Honolulu District, U.S. Army Corps of Engineers.

2. The enclosed Review Plan (reference 1.c.) for the Saipan Lagoon, CNMI, aquatic ecosystem restoration 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](mailto:Russell.K.Iwamura@usace.army.mil).

Encl

GREGORY J. GUNTER  
Colonel, EN  
Acting Commander

**REVIEW PLAN**

**SAIPAN LAGOON AQUATIC ECOSYSTEM RESTORATION STUDY**  
**SAIPAN, COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS (CNMI)**

**Feasibility Study**  
**Continuing Authorities Program (CAP)**  
**Section 206 of the Water Resources Development Act of 1996**  
**Public Law (PL) 104-303**

**U.S. Army Corps of Engineers, Honolulu District**



**MSC Approval Date:** 6 December 2012  
**Last Revision Date:** 15 November 2012



**US Army Corps  
of Engineers** ®

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SAIPAN, COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS (CNMI)**

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**TABLE OF CONTENTS**

<b>1. PURPOSE AND REQUIREMENTS .....</b>	<b>1</b>
<b>2. REVIEW MANAGEMENT ORGANIZATION (RMO) COORDINATION.....</b>	<b>2</b>
<b>4. DISTRICT QUALITY CONTROL (DQC).....</b>	<b>4</b>
<b>5. AGENCY TECHNICAL REVIEW (ATR) .....</b>	<b>4</b>
<b>6. INDEPENDENT EXTERNAL PEER REVIEW (IEPR).....</b>	<b>7</b>
<b>7. POLICY AND LEGAL COMPLIANCE REVIEW .....</b>	<b>8</b>
<b>8. COST ENGINEERING MANDATORY CENTER OF EXPERTISE (MCX) REVIEW AND CERTIFICATION.....</b>	<b>9</b>
<b>9. MODEL CERTIFICATION AND APPROVAL .....</b>	<b>9</b>
<b>10. REVIEW SCHEDULES AND COSTS .....</b>	<b>10</b>
<b>11. PUBLIC PARTICIPATION.....</b>	<b>10</b>
<b>12. REVIEW PLAN APPROVAL AND UPDATES.....</b>	<b>11</b>
<b>13. REVIEW PLAN POINTS OF CONTACT.....</b>	<b>11</b>
<b>ATTACHMENT 1: TEAM ROSTERS.....</b>	<b>12</b>
<b>ATTACHMENT 2: SAMPLE STATEMENT OF TECHNICAL REVIEW FOR DECISION DOCUMENTS.....</b>	<b>13</b>
<b>ATTACHMENT 3: REVIEW PLAN REVISIONS.....</b>	<b>15</b>
<b>ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS.....</b>	<b>16</b>

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## 1. PURPOSE AND REQUIREMENTS

**a. Purpose.** This review plan defines the scope and level of peer review for the Saipan Lagoon Aquatic Ecosystem Restoration Project, Commonwealth of the Northern Mariana Islands (CNMI), Continuing Authorities Program (CAP), Section 206 Project decision document.

Section 206 of the Water Resources Development Act of 1996, Public Law (PL) 104-303, 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 206, USACE is authorized to plan, design and construct aquatic ecosystem restoration projects without project specific congressional authorization. The projects must have the objective of restoring degraded ecosystem structure, function, and dynamic processes to a less degraded, more natural condition considering the ecosystem's natural integrity, productivity, stability and biological diversity.

Additional information on this program can be found in Engineer Regulation (ER) 1105-2-100, Planning Guidance Notebook, Appendix F, Amendment #2, 31 January 2007.

**b. Applicability.** This review plan was developed following the USACE Pacific Ocean Division (POD) Model Review Plan (MRP), dated May 2011. The POD MRP is applicable to those Section 206 project decision documents that do not require an Independent External Peer Review (IEPR).

### **c. References.**

(1) Engineer Circular (EC) 1165-2-209, Civil Works Review Policy, 31 January 2010 and Change 1, 31 January 2012.

(2) Director of Civil Works Policy Memorandum #1, CAP Planning Process Improvements, 19 January 2011.

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

(4) ER 1110-1-12, Quality Management, 30 September 2006.

(5) ER 1105-2-100, Planning Guidance Notebook, Appendix F, CAP, Amendment #2, 31 January 2007.

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

(7) Saipan Lagoon Aquatic Ecosystem Restoration Project Management Plan (PMP), October 2012.

(8) USACE POD Quality Management Plan, December 2010.

(9) USACE Honolulu District (POH) Civil Works Review Policy (ISO CEPOH-C\_12203), 1 November 2010.

**d. Requirements.** This review plan was developed in accordance with EC 1165-2-209, 31 January 2010, and Change 1, 31 January 2012, and the Director of Civil Works Policy Memorandum #1, 19 January 2011, which establishes an accountable, comprehensive, and 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), 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), Director of Civil Works Policy Memorandum #1 and the Value Management Plan requirements in the Project Management Business Process Reference 8023G and 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 206 decision document is POD. POD will coordinate and approve the review plan and manage the ATR.

Upon approval by POD, POH 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 Ecosystem Restoration (ECO) Planning Center of Expertise (PCX) to keep the PCX apprised of requirements and review schedules.

## 3. STUDY INFORMATION

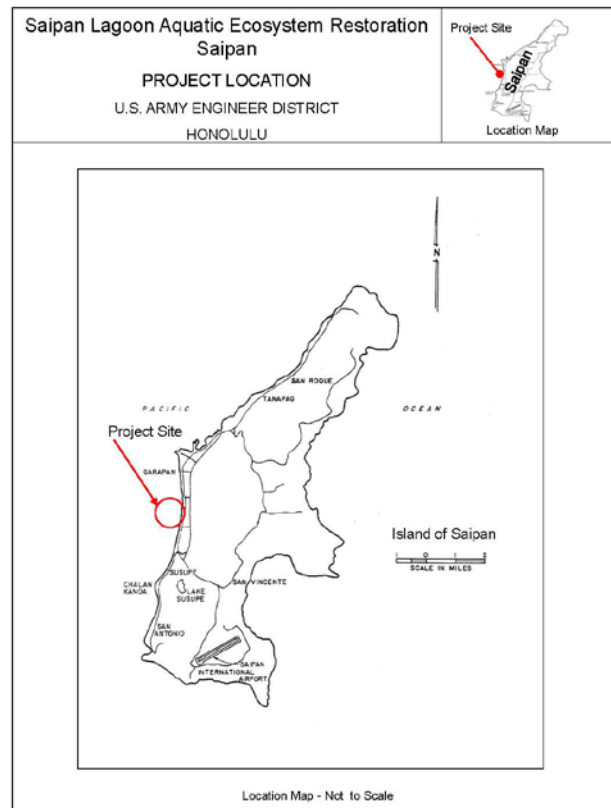
**a. Decision Document.** The Saipan Lagoon Aquatic Ecosystem Restoration Project Section 206 decision document will be prepared in accordance with ER 1105-2-100, Appendix F, Amendment #2, 31 January 2007. The approval level of the decision document (if policy compliant) is POD. An Environmental Assessment (EA) will be prepared with the decision document.

**b. Project Sponsor.** The non-Federal Sponsor for this project is the CNMI Coastal Resource Management Office.

**c. Project Location.** The project area encompasses approximately 2 miles of shoreline south of Garapan Village between Quartermaster Road and the northern boundary of the Hafa Adai Hotel in Saipan Lagoon, island of Saipan, CNMI. Preliminary investigations attribute the degradation of reef habitat in the area to the turbidity and toxicity of water being discharged into

the lagoon through shoreline outfalls crossing under Beach Road along the two mile study reach. (Figure 1).

**Figure 1: Saipan Lagoon Aquatic Ecosystem Restoration Project Study Location**



66

**d. Study/Project Description.** The objective of the project is to restore approximately 1,000 acres of degraded reef ecosystem structure, functions and values to a less degraded and natural ecological condition. As such, the study shall identify an environmental output(s) that can be measured and monitored, compare the outputs in the without- and with-project condition, and thus quantify improvements to the aquatic ecosystem as a result of the restoration activity. Water quality improvements shall be a necessary ingredient in the monitoring and measurement process. Engineering and design of the selected alternative shall be based upon achieving the environmental output that is targeted and identified by the planning and feasibility phases of this project and acceptability to the non-Federal sponsor.

The proposed project features include improvements to existing drainage and construction of up to three detention basins to contain surface runoff and reduce inundation of the reef.

Estimated construction costs: Construction costs are estimated at \$1 to \$5 million, depending on the number and size of detention basins.



**e. 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. Because the Feasibility phase is 100% federally funded, there are no proposed work in-kind products for this phase.

#### **4. DISTRICT QUALITY CONTROL (DQC)**

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. 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:

- (1) Draft and final integrated feasibility study/EA,
- (2) All technical reports and appendices developed in support of the integrated feasibility study/EA, and
- (3) The draft and final EA decision.

**c. Required DQC Expertise.** Because the project is small with a single purpose, the size of the DQC team will be commensurate with the size and complexity of the project. One individual may meet multiple expertise requirements. The following expertise is needed for DQC:

- Ecosystem Restoration plan formulation with expertise in ecosystem output models;
  - Economist with expertise in National Ecosystem Restoration (NER) plan analysis;
- and
- Environmental specialist with expertise in Civil Works environmental compliance including National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA), and Clean Water Act (CWA) Section 404(b) (1) alternatives analysis.

#### **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. Additionally, 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.** ATR will be performed throughout the study in accordance with the POH and POD Quality Management Plans. The ATR shall be documented and discussed at the Decision Point #2: Concurrence on the Tentatively Selected Plan (TSP) and at the Alternative Formulation Briefing (AFB) milestone. Certification of the ATR will be provided prior to the District Commander transmitting the final report to the POD Commander. Because this project is relatively discrete with limited complexities, the PDT anticipates an ATR of only the preliminary draft feasibility/EA report is necessary. Depending on the outcome of the ATR, the PDT and POD may determine that an additional ATR is needed on the final report/EA. Products to undergo ATR include:

(1) Draft integrated feasibility study/EA.

(2) 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. POD will identify the final make-up of the ATR team and identify the ATR team leader in consultation with the PM. 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 Team Expertise**

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional, preferably with experience in preparing Section 206 decision documents and conducting the 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 aquatic ecosystem restoration in urban settings and ecosystem output models.

ATR Team Members/Disciplines	Expertise Required
Economics	The economics reviewer should be a senior economist with experience in conducting Cost Effectiveness/Incremental Cost Analysis (CE/ICA) to identify a National Ecosystem Restoration (NER) plan.
Environmental Resources	The environmental resource reviewer should have experience in developing a wetland restoration project in an urban setting. In addition, the environmental resource reviewer should have expertise in compliance with all federal environmental laws for a Section 206 ecosystem restoration project.
Coastal Engineering	The coastal engineering reviewer will be an expert in the field of hydraulics and have a thorough understanding of estuarine restoration requirements, based on study objectives and proposed measures.
Cost Engineering	The cost engineering reviewer will be the Cost Mandatory Center of Expertise (MCX) Staff or Cost MCX Pre-Certified Professional with experience in preparing cost estimates for wetland restoration projects.
Real Estate	The real estate reviewer should have expertise as it relates to wetland restoration on publicly owned lands and lands to be transferred to a public entity.

**c. Documentation of ATR.** DrChecks<sup>sm</sup> 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 information, comments may seek clarification in order to then assess whether further specific concerns may exist.

The ATR documentation in DrChecks<sup>sm</sup> 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 ECO-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 1110-2-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks<sup>sm</sup> 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 possibly the 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 by an Outside Eligible Organization (OEO) external to USACE. 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 and 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.

IAW reference 1.c. (2) of this review plan, this Section 206 decision document (Feasibility Phase) is excluded from Type I IEPR.

- Type II IEPR. Type II IEPR, or Safety Assurance Review, is managed by the Risk Management Center (RMC) 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.

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.

## **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/CostAttr/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 are still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

The following planning models are anticipated to be used in the development of the decision document:

**Table 2: Planning Models and Certification/Approval Status**

<b>Model Name and Version</b>	<b>Brief Description of the Model and How It Will Be Applied in the Study</b>	<b>Certification/Approval Status</b>
Saipan Lagoon Study Specific Spreadsheet Model	In the absence of any regionalized ecosystem output model that quantifies estuarine habitat benefits for CNMI, a customized spreadsheet model will be developed, specifically for use on the Saipan Lagoon Ecosystem Restoration Project. The use of a site specific spreadsheet model will be tailored to focus on the specific project objectives and associated metrics.	Model will be reviewed during ATR.
Institute for Water Resources (IWR) Planning Suite	This model assists with formulating plans, cost-effectiveness, and incremental cost analysis, which are required for ecosystem restoration projects. An “annualizer” module has been included to allow for easy calculations of equivalent annual average values, total net values, and annualizing non-monetary benefits and calculating costs.	Certified

**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 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 are still the responsibility of the users and is subject to DQC, ATR, and IEPR (if required).

The following engineering model is proposed for the development of the decision document.

**Table 3: Engineering Models and Approval Status**

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Approval Status
Microcomputer Aided Cost Engineering System (MCACES) 2 <sup>nd</sup> 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 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.	Cost Engineering MCX Required Model

## 10. REVIEW SCHEDULES AND COSTS

**a. ATR Schedule and Cost.** The ATRs 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 ATRs of the various documents are scheduled as follows:

- Draft Feasibility Report/EA review: March 2013.
- Estimated Cost: \$20,000.

**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 Saipan Lagoon Study Specific Spreadsheet Model will be used on a one-time basis and will be reviewed during ATR.

## 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

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

## **12. REVIEW PLAN APPROVAL AND UPDATES**

The POD Commander is responsible for approving this review plan and ensuring that use of the POD CAP MRP is appropriate for the specific project covered by the plan. 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 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 POD following the process used for initially approving the plan. Significant changes may result in POD determining that use of the POD CAP MRP 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 the POD Commander's approval memorandum, will be posted on the POH webpage. The latest Review Plan will also be provided to ECO-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  
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  
U.S. Army Corps of Engineers, Pacific Ocean Division  
Building 525 CEPOD-PDC  
Ft. Shafter, HI 96858-5440  
Telephone: (808) 835-4625



**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 Saipan Lagoon Aquatic Ecosystem Restoration Project, Saipan, CNMI. 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 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<sup>sm</sup>.

*SIGNATURE*

Name

ATR Team Leader

Office Symbol/Company

\_\_\_\_\_  
Date

*SIGNATURE*

Name

Project Manager (home District)

Office Symbol

\_\_\_\_\_  
Date

*SIGNATURE*

Name

Architect Engineer Project Manager<sup>1</sup>

Company, location

\_\_\_\_\_  
Date

*SIGNATURE*

Name

Review Management Office Representative

Office Symbol

\_\_\_\_\_  
Date

<sup>1</sup> Only needed if some portion of the ATR was contracted.

**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*

---

*Name*

Chief, Engineering Division (home District)

*Office Symbol*

\_\_\_\_\_  
Date

*SIGNATURE*

---

*Name*

Chief, Planning Division (home District)

*Office Symbol*

\_\_\_\_\_  
Date

**ATTACHMENT 3: REVIEW PLAN REVISIONS**

**Table 6: Review Plan Revisions**

<b>Revision Date</b>	<b>Description of Change</b>	<b>Page / Paragraph Number</b>

**ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS**

**Table 7: Standard Acronyms and Abbreviations**

<b><u>Term</u></b>	<b><u>Definition</u></b>	<b><u>Term</u></b>	<b><u>Definition</u></b>
AFB	Alternative Formulation Briefing	NER	National Ecosystem Restoration
ASA(CW)	Assistant Secretary of the Army for Civil Works	NEPA	National Environmental Policy Act
ATR	Agency Technical Review	NHPA	National Historic Preservation Act
CSDR	Coastal Storm Damage Reduction	O&M	Operation and maintenance
CWA	Clean Water Act	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	POH	U.S. Army Corps of Engineers, Honolulu District
FEMA	Federal Emergency Management Agency	POD	U.S. Army Corps of Engineers, Pacific Ocean Division
FRM	Flood Risk Management	QMP	Quality Management Plan
FSM	Feasibility Scoping Meeting	QA	Quality Assurance
GRR	General Reevaluation Report	QC	Quality Control
HEP	Habitat Equivalency Protocol	RED	Regional Economic Development
HQUSACE	Headquarters, U.S. Army Corps of Engineers	RMC	Risk Management Center
IEPR	Independent External Peer Review	RMO	Review Management Organization
ITR	Independent Technical Review	RTS	Regional Technical Specialist
IWR	Institute of Water Resources	SAR	Safety Assurance Review
MSC	Major Subordinate Command	USACE	U.S. Army Corps of Engineers
NED	National Economic Development	WRDA	Water Resources Development Act