

REVIEW PLAN

***Puget Sound Marine Nearshore Habitat Restoration, Washington
Integrated Feasibility Report/Environmental Impact Study***

Seattle District

MSC Approval Date: 13 December 2012

Last Revision Date: 16 November 2012



**US Army Corps
of Engineers®**

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1. PURPOSE AND REQUIREMENTS

a. **Purpose.** This Review Plan defines the scope and level of peer review for the Puget Sound Marine Nearshore Habitat Restoration Study – Integrated Feasibility Report(FR)/Environmental Impact Statement (EIS).

b. References

- (1) Engineering Circular (EC) 1165-2-214, Civil Works Review Policy, 15 Dec 2012
- (2) EC 1105-2-412, Assuring Quality of Planning Models, 31 Mar 2010
- (3) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 Sep 2006
- (4) ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 Nov 2007
- (5) Project Management Plan (PMP) for Feasibility Phase of Puget Sound Marine Nearshore Habitat Restoration Study

c. **Requirements.** This review plan was developed in accordance with EC 1165-2-214, 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, decision documents are subject to cost engineering review and certification (per EC 1165-2-214) and planning model certification/approval (per EC 1105-2-412).

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 decision documents is typically either a Planning Center of Expertise (PCX) or the Risk Management Center (RMC), depending on the primary purpose of the decision document. The RMO for the peer review effort described in this Review Plan is the Ecosystem Restoration PCX (ECO-PCX).

The RMO will coordinate with the Cost Engineering Directory of Expertise (DX) 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 integrated FR/EIS for Puget Sound Marine Nearshore Habitat Restoration, Washington (i.e., Puget Sound Nearshore Ecosystem Restoration Project - PSNERP) is being undertaken to evaluate ecosystem degradation in the Puget Sound Basin; to formulate, evaluate, and screen potential solutions to these problems; and to recommend actions and projects that have a Federal interest and the support of a local entity willing to provide necessary local cooperation. The integrated FR/EIS will require approval from Major Subordinate Command (MSC), USACE Headquarters (HQUSACE), Chief of Engineers as well as Congressional authorization. The EIS will

satisfy all requirements under the National Environmental Policy Act (NEPA) and the State Environmental Policy Act (SEPA).

Study/Project Description. The focus of this single-purpose ecosystem restoration study is the Puget Sound nearshore zone, the transitional zone between major ecosystem types: terrestrial, freshwater, and marine. The nearshore zone includes beaches and the adjacent top of coastal banks or bluffs, the shallow waters in estuarine deltas, and tidal waters from the head of tide to a depth of approximately 10 meters relative to mean lower low water (MLLW). This contiguous band around the shoreline of the entire study area hosts diverse ecosystems that are shaped by coastal geomorphology and local environmental conditions, such as wave energy and salinity.

Puget Sound has been identified as an Estuary of National Significance by the U.S. Environmental Protection Agency's National Estuary Program. Many of the important and unique characteristics of Puget Sound depend upon the nearshore, including its high productivity, complex food webs, diverse habitats, and large numbers of plants and animals that occupy these habitats (Kozloff 1973; Sound Science 2007). These valuable natural resources in Puget Sound have declined to a point that the ecosystem may no longer be self-sustaining without intervention to curtail significant ecological degradation.

The study team has undertaken a comprehensive plan formulation process; over 500 potential restoration sites initially identified by the diverse group of restoration practitioners in Puget Sound were systematically evaluated using habitat modeling, cost-effective and incremental cost analysis (CE/ICA), and design and cost evaluations. Based on this methodical evaluation, the potential restoration sites were screened and compared to identify the 19 sites included in the Tentatively Selected Plan.

The Washington Department of Fish and Wildlife is the non-Federal sponsor for the study.

b. Factors Affecting the Scope and Level of Review. The General Investigation (GI) is a designated priority project in the Puget Sound region and is strongly supported by the Washington Congressional Delegation, Washington State, local governments, Federal and State resource agencies, non-governmental organizations, businesses, and private landowners. It has been determined that:

- Implementation will not likely be technically challenging: measures identified for implementation have been successfully engineered and implemented on similar ecosystem restoration projects in size and scope.
- The project will not likely have significant economic, environmental, and/or social effects to the Nation other than beneficial environmental effects (fully assessed in the Feasibility Report/EIS).
- The project does not involve significant threat to human life/safety.
- The project has significant interagency interest and has significant support from the Washington Department of Fish and Wildlife, the non-Federal sponsor.
- The project is not likely to be controversial: there is demonstrated public support for the project.
- The project contains influential scientific information including a new model to assess ecosystem outputs/benefits.

- The proposed project design is not based on novel methods, involve the use of innovative materials or techniques, present complex challenges for interpretation, or present conclusions that are likely to change prevailing practices.
- The proposed project design will not require redundancy, resiliency, and/or robustness.
- The proposed project is estimated to cost more than \$45 million.
- The study requires preparation of an EIS.

c. In-Kind Contributions. Products and analyses provided by non-Federal sponsors as in-kind services are subject to DQC, ATR, and IEPR. The in-kind products and analyses to be provided by the non-Federal sponsor include:

- (1) Project management related activities and support
- (2) Participation in scoping activities, including public meetings
- (3) Product reviews
- (4) Stakeholder outreach/coordination
- (5) Data and information collection and analysis

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 Project Management Plan (PMP). The home district shall manage DQC. Documentation of DQC activities is required and should be in accordance with the Quality Manual of the District and the home MSC.

- a. Documentation of DQC.** DrCheckssm review software will be used to document all DQC comments, responses, and associated resolutions accomplished throughout the review process. Relevant DQC records will be provided to the ATR team during each ATR event and the ATR team will provide comments as to the adequacy of the DQC effort for the associated product.
- b. Products to Undergo DQC.** All work products and reports, evaluations, and assessments shall undergo necessary and appropriate DQC, including NEPA documents, other environmental compliance products, and any in-kind services provided by the local sponsor. Additionally, the PDT is responsible for a complete reading of the report to assure the overall integrity of the report, technical appendices, and the recommendations before approval by the District Commander.
- c. Required DQC Expertise.** DQC Reviewers shall include: Planning, Environmental, H&H, Economics, Cultural Resources, Engineering, and HTRW. Reviewers shall be senior-level subject matter experts from Seattle District with experience in General Investigation studies for ecosystem restoration.

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 the designated RMO and is conducted by a qualified team from outside the home 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 the home MSC.

a. Products to Undergo ATR. Products requiring ATR include but are not limited to: Feasibility Scoping Meeting (FSM) documentation (completed February 2010); draft FR/EIS including appendices and environmental compliance documentation; final FR/EIS (optional; as determined by the Vertical Team); and other interim key technical products such as necessary including hydrology, surveys, investigations, and environmental inventories.

b. Required ATR Team Expertise.

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional with extensive experience in preparing Civil Works decision documents and conducting 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). ATR lead will be from outside the MSC.
Planning	The planning reviewer should be a senior water resources planner with experience in Ecosystem Restoration studies, General Investigation requirements (feasibility), feasibility reports, experience with Planning ERs and ECs, etc.
Economics	The economics reviewer should be a senior water resources economist with experience in economic analyses, Ecosystem Restoration studies, feasibility reports, Planning ERs and ECs, etc. The economics reviewer should also have experience with the IWR-Planning Suite model for cost effectiveness and incremental cost analysis (CE/ICA).
Environmental Resources	The environmental resources reviewer should be familiar with Northwest biology, specifically knowledge of salmonid species (spawning, rearing, freshwater migration), wetlands, riparian habitats, knowledge of riverine systems, process-based restoration, etc. Experienced with NEPA, specifically EIS documentation.
Cultural Resources	The cultural resources reviewer should be knowledgeable of Northwest tribal cultures and archaeology and have Corps experience regarding cultural resources on public and tribal lands.
Coastal Engineering	The coastal engineering reviewer should have experience with ecosystem restoration projects, tidal exchange, and sea level rise.
H&H/Geomorphologist	A senior hydrology and hydraulic engineer/geo-fluvial-morphologist will have an understanding of ecosystem restoration projects as well as sediment movement and channel morphology.
Civil Engineering	The civil engineer reviewer should have experience with ecosystem restoration projects and features including levee

	setbacks and breaches, formation of new tidal channels, and road removals or relocations.
Cost Engineering	Cost DX Staff or Cost DX Pre-Certified Professional with experience preparing cost estimates for ecosystem restoration projects.
Real Estate	The real estate reviewer will have a thorough understanding of easements, right of ways, and land acquisition for aquatic lands.

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 be 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 PDT response, a brief summary of the pertinent points in any discussion, including any vertical team coordination (the vertical team includes the district, RMO, MSC, 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 AFB, 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 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 1165-2-214, 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. For decision documents where a Type II IEPR (Safety Assurance Review) is anticipated during project implementation, safety assurance shall also be addressed during the Type I IEPR per EC 1165-2-214.
 - **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.
- a. Decision on IEPR.** The feasibility phase of PSNERP warrants a Type I IEPR, as the project has significant interagency interest, will cost more than \$45 million, and requires an EIS. The primary focus of the IEPR will be to assess the adequacy and acceptability of the following:
- Environmental assumptions and projections;
 - Project evaluation data;
 - Economic analyses;
 - Environmental analyses;
 - Formulation of alternative plans;

- Methods for integrating risk and uncertainty;
- Models used in the evaluation of environmental impacts of proposed project;
- Biological opinions of the project study

b. Products to Undergo Type I IEPR. The draft FR/EIS submittal package will undergo IEPR during the public review and prior to final approval. The IEPR will use appropriate analytical methods for each technical area. Additional review of key interim products will be determined as the study progresses, such as FSM or AFB documents.

c. Required Type I IEPR Panel Expertise. The IEPR panel will contain at least 5 reviewers. Reviewers will be selected by an Outside Eligible Organization and candidates may be nominated by the Corps. The likely disciplines and expertise required for IEPR are presented below. Each discipline will review products related to their area of expertise and focus their review on the previously listed items. Additional technical areas requiring IEPR may be identified during the study/review process.

IEPR Panel Members/Disciplines	Expertise Required
Planning	The planning reviewer should be an expert planner with experience in Ecosystem Restoration studies, General Investigation requirements (feasibility), alternatives formulation, feasibility reports, experience with Planning ERs and ECs, etc.
Economics	The Economics Panel Member should be an expert in the field of economics. Should be familiar with USACE economic analyses, Ecosystem Restoration studies, and feasibility reports. The economics panel member should also have experience with the IWR-Planning Suite model for cost effectiveness and incremental cost analysis (CE/ICA).
Environmental	The environmental panel member should be an expert in Northwest biology. Specifically, the panel member should have extensive knowledge of the following: salmonid biology (spawning, rearing, freshwater migration), wetlands, riparian habitats, riverine systems, process-based restoration, and NEPA compliance. Experienced with NEPA - specifically EIS documentation.
Hydraulic Engineering	The hydraulic engineering reviewer should have extensive knowledge of the hydraulic evaluation of nearshore restoration actions.
Civil Engineering	The civil engineering panel member should have extensive experience in river restoration. Examples of relevant experience include design and construction of levees, large woody debris structures, channel construction, and road removal/relocation.

d. Documentation of Type I IEPR. The IEPR panel will be selected and managed by an Outside Eligible Organization (OEO) per EC 1165-2-214, 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 4.d 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 home MSC 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

All decision documents shall be coordinated with the Cost Engineering DX, located in the Walla Walla District. The DX will assist in determining the expertise needed on the ATR team and Type I IEPR team (if required) and in the development of the review charge(s). The DX will also provide the Cost Engineering DX certification. The RMO is responsible for coordination with the Cost Engineering DX.

9. MODEL CERTIFICATION AND APPROVAL

EC 1105-2-412 mandates the use of certified or approved models for all planning activities to ensure the models are technically and theoretically sound, compliant with USACE policy, computationally accurate, and based on reasonable assumptions. Planning models, for the purposes of the EC, 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 use of a certified/approved planning model does not constitute technical review of the planning product. 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).

EC 1105-2-412 does not cover engineering models used in planning. 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).

- a. **Planning Models.** The following planning models are anticipated to be used in the development of the decision document:

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification / Approval Status
IWR Planning Suite	Software designed to assist with the formulation and comparison of alternative plans for ecosystem restoration. Performs Cost Effectiveness/ Incremental Cost Analysis (CE/ICA).	Certified
Puget Sound Nearshore Ecosystem Output Model	The PSNERP Ecosystem Output model accounts for both quantity and quality. Quantity is accounted for as number of acres restored. The quality portion of the model includes considerations of process, structure, and function.	Approved for One-Time Use

- b. **Engineering Models.** The following engineering models are anticipated to be used in the development of the decision document:

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Approval Status
MCASES	USACE-required cost estimating software	Certified

10. REVIEW SCHEDULES AND COSTS

- a. **ATR Schedule and Cost.** The ATR schedule and cost estimate is presented below.

<u>Task</u>	<u>Date</u>	<u>Estimated Cost</u>
ATR of FSM Documents	February 2010	\$50,000
ATR of draft FR/EIS (Prior to Agency Decision Milestone)	March 2013	\$50,000
ATR of final FR/EIS (OPTIONAL; Prior to Final Report Milestone)	October 2013	\$15,000
Total:		\$115,000

- b. **Type I IEPR Schedule and Cost.** The IEPR schedule and cost estimate is presented below.

<u>Task</u>	<u>Date</u>	<u>Estimated Cost</u>
PCX Coordination of IEPR	November 2012	\$15,000
Type I IEPR of draft FR/EIS (Prior to Agency Decision Milestone)	March 2013	\$*100,000

Total:		\$115,000

*Estimated contract for 5 reviewers

- c. **Model Certification/Approval Schedule and Cost.** Model approval will be coordinated with the ECO-PCX. The ECO-PCX will be charged with reviewing and commenting on the technical and system quality of the model and will also review the application of the model. After all review comments pertaining to the model have been addressed, the ECO-PCX will recommend model approval. The model approval schedule and cost estimate is presented below.

<u>Model</u>	<u>Date</u>	<u>Estimated Cost</u>
PSNERP Ecosystem Output Model	September 2012	\$100,000
Total:		\$100,000

11. PUBLIC PARTICIPATION

The public will be invited to comment directly to the PDT through informal and formal public scoping meetings and public review comment periods programmed into the feasibility schedule. This includes a public review of the draft FR/EIS (public review occurs concurrently with ATR, IEPR, and HQ policy reviews). Public input will be available to the ATR and IEPR teams to ensure public comments have been considered in development of the draft and final FR/EIS.

This RP and the accompanying PMP will be posted to the District web site for public review once it is approved by the MSC.

12. REVIEW PLAN APPROVAL AND UPDATES

The Northwestern Division Commander is responsible for approving this Review Plan. The Commander's approval reflects vertical team input (involving district, MSC, RMO, and HQUSACE members) 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. The home district is responsible for keeping the Review Plan up to date. Minor changes to the review plan since the last MSC Commander 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 the MSC Commander following the process used for initially approving the plan. The latest version of the Review Plan, along with the Commanders' approval memorandum, should be posted on the Home District's webpage. The latest Review Plan should also be provided to the RMO and home MSC.

13. REVIEW PLAN POINTS OF CONTACT

ATTACHMENT 1: TEAM ROSTERS

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 <type of product> for <project name and location>. The ATR was conducted as defined in the project’s Review Plan to comply with the requirements of EC 1165-2-214. 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 _____ Date _____
Name
ATR Team Leader
Office Symbol/Company

SIGNATURE _____ Date _____
Name
Project Manager
Office Symbol

SIGNATURE _____ Date _____
Name
Architect Engineer Project Manager¹
Company, location

SIGNATURE _____ Date _____
Name
Review Management Office Representative
Office Symbol

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 _____ Date _____
Name
Chief, Engineering Division
Office Symbol

SIGNATURE _____ Date _____
Name
Chief, Planning Division
Office Symbol

¹ Only needed if some portion of the ATR was contracted

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number
15 November 2012	Updated RP using new RP template. Also updated RP to reflect SMART Planning Milestones & Schedule.	Throughout Document

ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS

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