

DECISION DOCUMENT REVIEW PLAN
USING THE NATIONAL PROGRAMMATIC REVIEW PLAN MODEL
for
Continuing Authorities Program
Section 14, 107, 111, 204, 206, 208 and 1135 Projects

Seahurst Park Phase II Ecosystem Restoration Project, Burien, WA
Section 544 Project

Seattle District

MSC Approval Date: Pending
Last Revision Date: 11 November 2010



**US Army Corps
of Engineers®**

**DECISION DOCUMENT REVIEW PLAN
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Section 544 Project**

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1. PURPOSE AND REQUIREMENTS

- a. **Purpose.** This Review Plan defines the scope and level of peer review for the Seahurst Park Phase II Ecosystem Restoration Project, Burien, WA, Section 544 project decision document.

Section 544 of WRDA 2000 directs the Secretary to conduct studies and implement critical restoration projects in the area of Puget Sound, Washington and adjacent waters, including the watersheds that drain directly into Puget Sound, Admiralty Inlet, Hood Canal, Rosario Strait, and the Strait of Juan de Fuca to Cape Flattery. The projects will produce, consistent with Federal programs, projects, and activities, immediate and substantial ecosystem restoration, preservation and protection benefits. Section 544 authorizes the Secretary, in consultation with the Secretary of Commerce, the Secretary of the Interior; the Governor of the State of Washington, tribal governments, and the heads of other appropriate Federal, State, and local agencies, to develop criteria and procedures for prioritizing projects. Additionally, project selection criteria and procedures must be consistent with fish restoration goals of the National Marine Fisheries Service and the State of Washington. In prioritizing projects for implementation, the Secretary shall consult with and consider the priorities of public and private entities that are active in Puget Sound watersheds, including the Salmon Recovery Funding Board, the Northwest Straits Commission, the Hood Canal Coordinating Council, county watershed planning councils and salmon enhancement groups. Selection of critical projects for review and approval shall consider studies and plans in existence at the time of WRDA 2000 enactment, as well as after enactment. The authorized appropriation for section 544 is \$40,000,000. The Federal share for a single restoration project is limited to \$5,000,000.

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

- b. **Applicability.** This review plan is based on the model National Programmatic Review Plan for Section 14, 107, 111, 204, 206, 208 and 1135 project decision documents, which is applicable to projects that do not require Independent External Peer Review (IEPR), as defined in ER 1165-2-209 Civil Works Review Policy. A Section 14, 107, 111, 204, 206, 208 and 1135 project does not require IEPR if ALL of the following specific criteria are met:

- The project does not involve a significant threat to human life/safety assurance;
- The total project cost is less than \$45 million;
- There is no request by the Governor of an affected state for a peer review by independent experts;
- The project does not require an Environmental Impact Statement (EIS),
- The project/study is not likely to involve significant public dispute as to the size, nature, or effects of the project;
- The project/study is not likely to involve significant public dispute as to the economic or environmental cost or benefit of the project;
- The information in the decision document or anticipated project design is not likely to be based on novel methods, involve the use of innovative materials or techniques, present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices;

- The project design is not anticipated to require redundancy, resiliency, and/or robustness, unique construction sequencing, or a reduced or overlapping design construction schedule; and
- There are no other circumstances where the Chief of Engineers or Director of Civil Works determines Type I IEPR is warranted.

If any of the above criteria are not met, the model National Programmatic Review Plan is not applicable and a study specific review plan must be prepared by the home district, coordinated with the appropriate Planning Center of Expertise (PCX) and approved by the home Major Subordinate Command (MSC) in accordance with EC 1165-2-209.

Applicability of the model National Programmatic Review Plan for a specific project is determined by the home MSC. If the MSC determines that the model plan is applicable for a specific study, the MSC Commander may approve the plan (including exclusion from IEPR) without additional coordination with a PCX or Headquarters, USACE. The initial decision as to the applicability of the model plan should be made no later than the Federal Interest Determination (FID) milestone (as defined in Appendix F of ER 1105-2-100, F-10.e.1) during the feasibility phase of the project. A review plan for the project will subsequently be developed and approved prior to execution of the Feasibility Cost Sharing Agreement (FCSA) for the study. In addition, per EC 1165-2-209, the home district and MSC should assess at the Alternatives Formulation Briefing (AFB) whether the initial decision on Type I IEPR is still valid based on new information. If the decision on Type I IEPR has changed, the District and MSC should begin coordination with the appropriate PCX immediately.

This review plan does not cover implementation products. A review plan for the design and implementation phase of the project will be developed prior to approval of the final decision document in accordance with EC 1165-2-209.

c. References

- (1) Engineering Circular (EC) 1165-2-209, Civil Works Review Policy, 31 Jan 2010
- (2) EC 1105-2-407, Model Certification, 31 May 2005
- (3) Engineering Regulation (ER) 1110-1-12, Quality Management, 30 Sep 2006
- (4) ER 1105-2-100, Planning Guidance Notebook, Appendix F, Continuing Authorities Program, Amendment #2, 31 Jan 2007
- (5) ER 1105-2-100, Planning Guidance Notebook, Appendix H, Policy Compliance Review and Approval of Decision Documents, Amendment #1, 20 Nov 2007

- d. Requirements.** This programmatic 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, decision documents are subject to cost engineering review and certification (per EC 1165-2-209) and planning model certification/approval (per EC 1105-2-407).

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 Section 544 decision documents is the home MSC. The MSC will coordinate and approve the review plan and manage the ATR. The home District will post the approved review plan on its public website. A copy of the approved review plan (and any updates) will be provided to the ECO-PCX to keep the PCX apprised of requirements and review schedules.

3. STUDY INFORMATION

- a. **Decision Document.** The Seahurst Park Phase II Ecosystem Restoration Project, Burien, WA 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 the home MSC. An Environmental Assessment (EA) will be prepared along with the decision document.
- b. **Study/Project Description.** Seahurst Phase II is located on the eastern side of south central Puget Sound, King County, in Burien, Washington. The project area encompasses approximately 3 acres along the beach in Seahurst Park. The City of Burien is the non-Federal project sponsor.

Seahurst Park is one of the largest parks on the Central Puget Sound shoreline. The park and the undeveloped shorelines south of it are important sediment sources for intertidal beaches extending to the north for approximately 10 miles to Alki Beach and Duwamish Head in Seattle. Sediment supply is a key habitat forming process along Puget Sound, and the primary sediment source for Puget Sound is unstable coastal bluffs. Shorelines downdrift (north) of the park are primarily bulkheaded and there are limited opportunities to supply sediment to this segment of the Puget Sound shoreline.

The park's nearly one mile of shoreline includes many important intertidal and marine riparian habitats that support federally listed threatened species, such as Puget Sound Chinook salmon (*Oncorhynchus tshawytscha*), other salmonids, and species they depend on. Some of these habitats have been negatively impacted by earlier shoreline park development that King County constructed in the early 1970s. Specifically, a concrete seawall, extending for approximately 2,000 linear feet of the north shoreline, and extensive rock riprap have displaced the park's natural intertidal and riparian habitats and disrupted the sediment supply regime.

Study and project costs are estimated at approximately \$7.5 million.

- c. **Factors Affecting the Scope and Level of Review.** Section 544 is a CAP-like authority that is managed like Section 206. For all practical purposes it differs from Section 206 only in that its application is limited to Puget Sound and its adjacent waters. The federal per project spending limit (\$5,000,000) and the federal/non-federal cost share (50%/50% for Feasibility and 65%/35% Design & Implementation) are the same as for Section 206.

In 2005 Seattle District, in partnership with the City of Burien, and also under the Section 544 authority, removed a gabion seawall immediately south of the armoring currently proposed for removal.

The proposed project would consist of removal of approximately 2,000 LF of concrete seawall and armor rock, and re-grading the shoreline to resemble the site topography prior to construction of

the seawall. The intention of the project is to create conditions that allow more frequent landslides, in order to reconnect the sediment source (bluffs) to the sink (drift cell).

The location of the seawall in a city park provides an opportunity to undertake sediment supply restoration without posing a risk to structures, infrastructure or human life. The nearest non-park structure is approximately one mile inland from the project site.

Two existing structures located near the existing seawall would remain after project completion, an Environmental Science Center (ESC) and a Marine Technology Lab (MTL). The ESC is located far enough landward so as to not be at high risk of being undermined as a result of storm or wave induced erosion. The MTL is closer to the existing seawall, and the proposed restoration design includes retaining a portion of the seawall seaward of the MTL to protect it from storm or wave induced erosion.

The project is located on the shores of Puget Sound, a relatively protected body of water with limited fetch. This restoration project will employ accepted design and will have very low risk for design and maintenance issues.

There is no request by the Governor of an affected state for a peer review by independent expert. The project/study is not likely to involve significant public dispute as to the size, nature, or effects of the project. When the environmental assessment was distributed and posted for public comment, no comments were received.

The project primarily consists of deconstructing existing armoring and restoring a natural topographic profile. As such, the information in the decision document is not based on novel methods, does not involve the use of innovative materials or techniques, or present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices; and the project design is not anticipated to require redundancy, resiliency, and/or robustness, unique construction sequencing, or a reduced or overlapping design construction schedule.

d. 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. The sponsor has participated in the following activities:

- Project Management;
- Permitting;
- Design;
- Monitoring plan;
- Real estate/title reports; and
- Land classification and ownership.

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.

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 and the ATR team will provide comments as to the adequacy of the DQC effort for the associated product. A final review of the products will be conducted by Office of Counsel.

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.** ATR will be performed throughout the study in accordance with the District and MSC Quality Management Plans. The ATR shall be documented and discussed at the Alternative Formulation Briefing (AFB) milestone. Certification of the ATR will be provided prior to the District Commander signing the final report. Products to undergo ATR include the Detailed Project Report/Environmental Assessment.
- b. **Required ATR Team Expertise.** ATR team make-up and expertise required is detailed in the table below.

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 ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process. The ATR Lead MUST be from outside Northwestern Division.
Planning	The Planning reviewer should be a senior water resources planner with experience in plan formulation of ecosystem restoration projects.
Economics	The Economics reviewer should be a senior water resources economist with experience in conducting economic analysis of ecosystem restoration alternative, with experience specifically with IWP Plan software and cost effectiveness/incremental cost analysis.
Environmental Resources	The environmental resources reviewer should be a senior environmental resources specialist with experience in thorough documentation of comprehensive NEPA compliance and experience in quantification of ecosystem benefits for the purposes of evaluating the cost-effectiveness of alternatives.

Cultural Resources	The Cultural Resources reviewer should be a senior cultural resources specialist with experience in thorough documentation of NEPA compliance and project coordination regarding potential project impacts to cultural resources.
Coastal Engineering	<u>The coastal engineering reviewer will be an expert in the field of coastal engineering and have a thorough understanding of coastal dynamics including tidal and storm-induced erosion and accretion processes. It is possible that the same engineer could cover all engineering disciplines, depending on the breadth of their expertise.</u>
Geotechnical Engineering	<u>The geotechnical engineering reviewer will be an expert in the field of geotechnical engineering and have a thorough understanding of engineering considerations related to retaining wall construction. It is possible that the same engineer could cover all engineering disciplines, depending on the breadth of their expertise.</u>
Civil Engineering	The civil engineering reviewer should be an expert in civil engineering with in-depth knowledge of Corps requirements for the development of 35% design drawings. <u>It is possible that the same engineer could cover all engineering disciplines, depending on the breadth of their expertise.</u>
Cost Engineering	<u>Cost DX Staff or Cost DX Pre-Certified Professional with experience preparing cost estimates for seawall removal or related projects.</u>
Real Estate	The real estate reviewer will have extensive experience with thorough documentation of real estate requirements necessary for completing Corps projects.

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

- (1) The review concern – identify the product’s information deficiency or incorrect application of policy, guidance, or procedures;
- (2) The basis for the concern – cite the appropriate law, policy, guidance, or procedure that has not been properly followed;
- (3) The significance of the concern – indicate the importance of the concern with regard to its potential impact on the plan selection, recommended plan components, efficiency (cost), effectiveness (function/outputs), implementation responsibilities, safety, Federal interest, or public acceptability; and
- (4) The probable specific action needed to resolve the concern – identify the action(s) that the reporting officers must take to resolve the concern.

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

The ATR documentation in DrChecks will include the text of each ATR concern, the 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 1110-2-12 or ER 1105-2-100, Appendix H, as appropriate. Unresolved concerns can be closed in DrChecks with a notation that the concern has been elevated to the vertical team for resolution.

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

- Identify the document(s) reviewed and the purpose of the review;
- Disclose the names of the reviewers, their organizational affiliations, and include a short paragraph on both the credentials and relevant experiences of each reviewer;
- Include the charge to the reviewers;
- Describe the nature of their review and their findings and conclusions;
- Identify and summarize each unresolved issue (if any); and
- Include a verbatim copy of each reviewer's comments (either with or without specific attributions), or represent the views of the group as a whole, including any disparate and dissenting views.

ATR may be certified when all ATR concerns are either resolved or referred to the vertical team for resolution and the ATR documentation is complete. The ATR Lead will prepare a Statement of Technical Review certifying that the issues raised by the ATR team have been resolved (or elevated to the vertical team). A Statement of Technical Review should be completed prior to the District Commander signing 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 in cases that meet certain criteria where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of USACE is warranted. A risk-informed decision, as described in EC 1165-2-209, is made as to whether IEPR is appropriate. IEPR panels will consist of independent, recognized experts from outside of the USACE in the appropriate disciplines, representing a balance of areas of expertise suitable for the review being conducted. There are two types of IEPR:

- **Type I IEPR.** Type I IEPR reviews are managed outside the USACE and are conducted on project studies. Type I IEPR panels assess the adequacy and acceptability of the economic and environmental assumptions and projections, project evaluation data, economic analysis, environmental analyses, engineering analyses, formulation of alternative plans, methods for integrating risk and uncertainty, models used in the evaluation of environmental impacts of proposed projects, and biological opinions of the project study. Type I IEPR will cover the entire decision document or action and will address all underlying engineering, economics, and environmental work, not just one aspect of the study. 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 1165-2-209.

For Section 14, 107, 111, 204, 206, 208 and 1135 decision documents prepared under the model National Programmatic Review Plan, Type I IEPR is not required.

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

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

- a. Decision on IEPR.** Based on the information and analysis provided in the preceding paragraphs of this review plan, the project covered under this plan is excluded from IEPR because it does not meet the mandatory IEPR triggers and does not warrant IEPR based on a risk-informed analysis. If any of the criteria outlined in paragraph 1(b) are not met, the model National Programmatic Review Plan is not applicable and a study specific review plan must be prepared by the home district, coordinated with the appropriate PCX and approved by the home MSC in accordance with EC 1165-2-209.
- b. Products to Undergo Type I IEPR.** Not applicable.
- c. Required Type I IEPR Panel Expertise.** Not Applicable.
- d. Documentation of Type I IEPR.** Not Applicable.

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. For decision documents prepared under the National Programmatic Review Plan Model,

Regional cost personnel that are pre-certified by the DX will conduct the cost engineering ATR. The DX will provide the Cost Engineering DX certification. The RMO will coordinate with the Cost Engineering DX on the selection of the cost engineering ATR team member.

9. MODEL CERTIFICATION AND APPROVAL

EC 1105-2-407 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 and ATR.

EC 1105-2-407 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 and ATR.

- 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	IWR Planning Suite assists with plan formulation by combining user-defined solutions to planning problems and calculating the effects of each combination, or "plan." The program can assist with plan comparison by conducting cost effectiveness and incremental cost analyses, identifying the plans which are best financial investments and displaying the effects of each on a range of decision variables.	Certified
Study specific ecosystem benefit estimation model	To evaluate the ecological benefits provided through various restoration activities considered for the Project, a quantitative scoring system was developed. The scoring system provides a scientifically-based, area-weighted method for estimating and comparing the habitat function benefits provided by the various restoration activities considered. The area weighted approach is similar to the Habitat Equivalency Analysis (HEA) used for Natural Resource Damage Assessments (NRDA) to determine habitat function (e.g., Iadanza 2001; Wolotira	ATR team charged to review and comment on: 1) The technical and system quality of the model. 2) The

	2008).	application of the model to the project.
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b. Engineering Models. The following engineering models are anticipated to be used in the development of the decision document: (No engineering models are anticipated to be used in the development of the decision document.)

c.

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Approval Status

10. REVIEW SCHEDULES AND COSTS

a. ATR Schedule and Cost.

Schedule

ATR team review: May 1- May 15, 2010

PDT Response to Comments: May 16-May 31, 2010

ATR Backcheck: June 1-June 8, 2010

Cost

ATR team labor: \$20,000

Labor cost estimate is based on 8 members at \$2,500 in labor costs per person. PDT labor setting up review and responding to comments is not included in this estimate.

b. Type I IEPR Schedule and Cost. Not applicable.

c. Model Certification/Approval Schedule and Cost. For decision documents prepared under the model National Programmatic Review Plan, use of existing certified or approved planning models is encouraged. Where uncertified or unapproved model are used, approval of the model for use will be accomplished through the ATR process. The ATR team will apply the principles of EC 1105-2-407 during the ATR to ensure the model is theoretically and computationally sound, consistent with USACE policies, and adequately documented. If specific uncertified models are identified for repetitive use within a specific district or region, the appropriate PCX, MSC(s), and home District(s) will identify a unified approach to seek certification of these models.

11. PUBLIC PARTICIPATION

State and Federal resource agencies may be invited to participate in the study covered by this review plan as partner agencies or as technical members of the PDT, as appropriate. Agencies with regulatory review responsibilities will be contacted for coordination as required by applicable laws and procedures. The ATR team will be provided copies of public and agency comments.

The draft Detailed Project report/Environmental Assessment was posted for public comment from 6 July to 6 August 2010, and notification of the posting was widely distributed. No comments were received.

12. REVIEW PLAN APPROVAL AND UPDATES

The home MSC Commander is responsible for approving this review plan and ensuring that use of the Model Programmatic Review Plan is appropriate for the specific project covered by the plan. The review plan is a living document and may change as the study progresses. The 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. Significant changes may result in the MSC Commander determining that use of the Model Programmatic Review Plan is no longer appropriate. In these cases, a project specific review plan will be prepared and approved in accordance with EC 1165-2-209. The latest version of the review plan, along with the Commanders' approval memorandum, will be posted on the home district's webpage.

13. REVIEW PLAN POINTS OF CONTACT

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

- Project Manager, Seattle District , US Army Corps of Engineers: (206) 764-3600
- Seattle District Liaison, Northwestern Division, US Army Corps of Engineers (503) 808-3705

ATTACHMENT 1: TEAM ROSTERS**PDT**

Role	Name	Phone
Project Manager	Brenda Bachman	206-764-3524
Plan Formulator	Chris Behrens	206-764-6917
Economist	Charyl Francois	206-764-5522
Environmental Coordinator	Kevin McKeag	206-764-3415
Coastal Engineer	Dave Michalsen	206-764-3705
Cultural Resources Specialist	Danielle Storey	206-764-4466
Cost Engineer	Jim Jetton	509-527-7509
Real Estate Specialist	Kevin Kane	206-316-4410

ATR Team

Role	Name	District	Phone
ATR Lead	Michelle Kniep	MVS	314-331-8404
Plan Formulator	Judy Sheen	SPN	415-503-6854
Economist	Carrie McCabe	NAN	917-790-8316
Environmental Coordinator	Matthew Davis	SPK	916-557-6708
Coastal Engineer	Lynn Bocamazo	NAN	917-790-8396
Cultural Resources Specialist	John Peukert	MVS	314-331-8063
Cost Engineer	Pat Miramontez	NWK	816-389-3322
Real Estate Specialist	Glynn Mize	MVK	601-631-5247

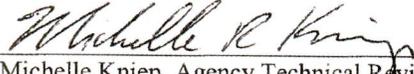
Attachment 2

~~Enclosure 1~~ – Certification of Agency Technical Review

STATEMENT OF AGENCY TECHNICAL REVIEW (ATR)

COMPLETION OF AGENCY TECHNICAL REVIEW:

The ATR team has completed the review. Notice is hereby given that an Agency Technical Review that is appropriate to the level of risk and complexity inherent in the project is complete as defined in the Review Plan. During the Agency Technical Review, compliance with established policy principles and procedures, utilizing justified and valid assumptions were verified. This included review of assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level of data obtained, and reasonableness of the results including whether the product meets the customer's needs consistent with law and existing Corps policy.

 Date: 11/4/10
Michelle Kniep, Agency Technical Review Team Lead

 Date: 11/4/10
for Brenda Bachman, Project Manager

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number
11/9/2010	<p>Plan revised to conform in format with the 6 Oct 2010 draft of the national programmatic review plan model for CAP 206.</p> <p>There are no significant changes since the 3/11/2010 draft of the RP submitted to NWD on 3/29/2010. More detail is provided.</p> <p>Sample Statement of Technical Review from draft programmatic review plan replaced with that from the Guidance Memorandum for EC 1165-2-209 Implementation in Northwestern Division (21 September 2010).</p>	Various

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
CAP	Continuing Authorities Program	O&M	Operation and maintenance
CSDR	Coastal Storm Damage Reduction	OMB	Office and Management and Budget
DPR	Detailed Project Report	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
DQC	District Quality Control/Quality Assurance	OEO	Outside Eligible Organization
DX	Directory of Expertise	OSE	Other Social Effects
EA	Environmental Assessment	PCX	Planning Center of Expertise
EC	Engineer Circular	PDT	Project Delivery Team
EIS	Environmental Impact Statement	PAC	Post Authorization Change
EO	Executive Order	PMP	Project Management Plan
ER	Ecosystem Restoration	PL	Public Law
FDR	Flood Damage Reduction	QMP	Quality Management Plan
FEMA	Federal Emergency Management Agency	QA	Quality Assurance
FRM	Flood Risk Management	QC	Quality Control
FSM	Feasibility Scoping Meeting	RED	Regional Economic Development
GRR	General Reevaluation Report	RMC	Risk Management Center
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