

**Continuing Authorities Program
Section 206, Water Resources Development Act of 1996, as Amended
Aquatic Ecosystem Restoration Project**

**DECISION DOCUMENT REVIEW PLAN
USING THE NATIONAL PROGRAMMATIC REVIEW PLAN MODEL**

Cypress Creek, Montgomery, Alabama

Mobile District

**South Atlantic Division (SAD) Approval Date: January 19, 2011
Last Revision Date: December 2010**

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**US Army Corps
of Engineers ®**

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**Section 206, Water Resources Development Act of 1996, as amended
Aquatic Ecosystem Restoration Decision Documents**

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1. PURPOSE AND REQUIREMENTS

- a. **Purpose.** This Review Plan defines the scope and level of peer review for the Cypress Creek, Montgomery, Alabama Feasibility Report and Environmental Assessment (decision document) developed under Section 206, Water Resources Development Act of 1996, as amended.

The Continuing Authorities Program (CAP) consists of a group of ten legislative authorities by which the Chief of Engineers is authorized to plan, design, and construct certain types of water resource and environmental restoration projects of limited size, scope, cost and complexity without additional, project-specific Congressional authorization. Section 206 of the Water Resources Development Act of 1996, Public Law 104-303, is a CAP authority for aquatic ecosystem restoration projects with 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. This authority is primarily used for manipulation of the hydrology in and along bodies of water, including wetlands and riparian areas. This authority also allows for dam removal. The Federal share of costs for any one Section 206 project may not exceed \$5,000,000.

- b. **Applicability.** This review plan is based on the model National Programmatic Review Plan for Section 206 project decision documents, which is applicable to projects that do not require Independent External Peer Review (IEPR), as defined in EC 1165-2-209 Civil Works Review Policy. A Section 206 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 is not likely to have significant economic, environmental, and/or social effects to the Nation;
- The project/study is not likely to have significant interagency interest;
- The project/study is not likely highly controversial;
- The decision document is not likely to contain influential scientific information or be a highly influential scientific;
- The information in the decision document or proposed 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; and
- The project has not been deemed by the USACE Director of Civil Works or Chief of Engineers to be controversial nature.

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 National Ecosystem Planning Center of Expertise (ECO-PCX) and approved by the home Major Subordinate Command (SAD) 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 SAD 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 the ECO-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 milestone (as defined in Appendix F of ER 1105-2-100, F-10.e.1) during the feasibility phase of the project. In addition, the home district and SAD should assess at the Alternatives Formulation Briefing (AFB) whether the initial decision on the use of the model plan is still valid or if a project specific review plan should be developed based on new information. If a project specific review plan is required, it must be approved prior to execution of the Feasibility Cost Sharing Agreement (FCSA) for the study.

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 1105-2-412, Assuring Quality of Planning Models, 2010
- (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 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 1105-2-412).

- (1) District Quality Control/Quality Assurance (DQC). All decision documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo DQC as provided in EC 1165-2-209, paragraph 8.
- (2) Agency Technical Review (ATR). ATR is mandatory for all decision documents (including supporting data, analyses, environmental compliance documents, etc.) as provided in EC 1165-2-209, paragraph 9.

For review of decision documents under the model National Programmatic Review Plan for Section 206 projects, the leader of the ATR team shall be from outside the home district, but may be from within the home SAD.

- (3) Independent External Peer Review (IEPR). IEPR may be required for decision documents under certain circumstances, as provided in EC 1165-2-209, paragraph 10. There are two types of IEPR: Type I is generally for decision documents and Type II is generally for implementation products.

- (a) **Type I IEPR.** Type I IEPR reviews are managed outside the USACE and are conducted on project studies, as provided in EC 1165-2-209, paragraph 11.

For review of decision documents under the model National Programmatic Review Plan, for Section 206 projects, Type I IEPR is not required.

- (b) **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, as provided in EC 1165-2-209, paragraph 12. 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 review of decision documents under the model National Programmatic Review Plan for Section 206 projects, Type II IEPR is not required.

- (4) **Policy and Legal Compliance Review.** All decision documents will be reviewed throughout the study process for their compliance with law and policy, as provided in EC 1165-2-209, paragraph 14.

- (5) **Cost Engineering Review and Certification.**

For decision documents prepared under the model National Programmatic Review Plan, Regional cost personnel that are pre-certified by the DX will conduct the cost estimate ATR. If pre-certified cost personnel are not in place, the cost estimate will be sent to the Walla Walla (DX) for ATR. The DX will provide the cost engineering certification.

- (6) **Model Certification/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. EC 1105-2-407 requires certification (for Corps models) or approval (for non-Corps models) of planning models used for all planning activities. The EC defines planning models 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 EC does not cover engineering models used in planning. Engineering software is being address under the Engineering and Construction (E&C) Science and Engineering Technology (SET) initiative. Until an appropriate process that documents the quality of commonly used engineering software is developed through the SET initiative, engineering activities in support of planning studies shall proceed as in the past. 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.

For review of decision documents under a 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 1105-2-412 during the ATR to ensure the model is theoretically and computationally sound, consistent with USACE policies, and adequately documented. If specific uncertified models are identified for repetitive use within a specific district or region, the appropriate PCX, MSC(s), and home District(s) will identify a unified approach to seek certification of these models.

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 206 decision documents is the South Atlantic Division. The SAD will coordinate and approve the review plan and manage the ATR. The Mobile 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 National Ecosystem Planning Center of Expertise (ECO-PCX) to keep the PCX apprised of requirements and review schedules.

3. STUDY INFORMATION

- a. **Decision Document.** The Cypress Creek, Montgomery, Alabama decision document will be prepared in accordance with ER 1105-2-100, Appendix F. The approval level of decision documents (if policy compliant) is the home SAD. An Environmental Assessment (EA) will be prepared along with the decision document.
- b. **Study/Project Description.** With cooperation between the Corps and the City of Montgomery, the Cypress Creek Watershed has been identified as a potential Aquatic Ecosystem Restoration Study. The study is consistent with the objectives of the US Army of Corps of Engineers' aquatic ecosystem restoration program under the Section 206 Authority. Additionally, it is likely that an improvement of the Cypress Creek watershed by the Corps will complement the restoration plans envisioned by the non-Federal Sponsor. The Preliminary Policy Report was approved by SAD April 2010. Primary stressors to the watershed have been identified as lack of flow and aquatic species in the Cypress Creek area, vegetation/riparian removal, sedimentation runoff, invasive species, underground channel and culverts and pipes leading into the Cypress Inlet (Figure 1). The Cypress Creek project encompasses three distinct features being considered for restoration: Cypress Pond, Cypress Creek and Cypress Inlet. Cypress Pond is located inside of a 260-acre parcel of land owned by the City of Montgomery. Although the 260 acres will be studied holistically, significant focus will be on the 60 acres of jurisdictional wetlands inside the 260 acres of land. Problems within Cypress Pond include numerous non-native invasive species and the limited surface water connection between Cypress Pond and Cypress Creek. Cypress Creek is approximately 12,950 feet in length and has been broken into six reaches based on existing environmental conditions as follows and are further described in the Project Management Plan:
 - Concrete channel in reach 1
 - Lack of meanders throughout creek.
 - Lack of constant flow throughout creek.
 - Sedimentation.
 - Significant debris and pollution along creek.

- Lack of riparian vegetation.
- Nonfunctional culverts and pipes traversing underneath the railroad tracks in reach 6.
- Channel under streets and buildings in reach 5
- Lack of fluvial exchange with Cypress Inlet at the Alabama River and Cypress Creek.

All of the problems listed above have a negative impact on aquatic habitat. The management measures being considered include removing invasive species from the pond, diverting reach 2 of the creek back to a more natural state into the pond, adding riparian vegetation along the non-vegetated reaches of the creek, replacing existing culverts at specific street crossings, daylighting reach 5 and reconnecting hydrology by using jack and bore method under the railroad crossing in reach 6 and at the inlet.

The estimated cost (or range of cost) will be determined after alternatives are identified. At the present time there are no existing or anticipated policy waiver requests (pursued per paragraph F-10.f.(4) of ER 1105-2-100, Appendix F).

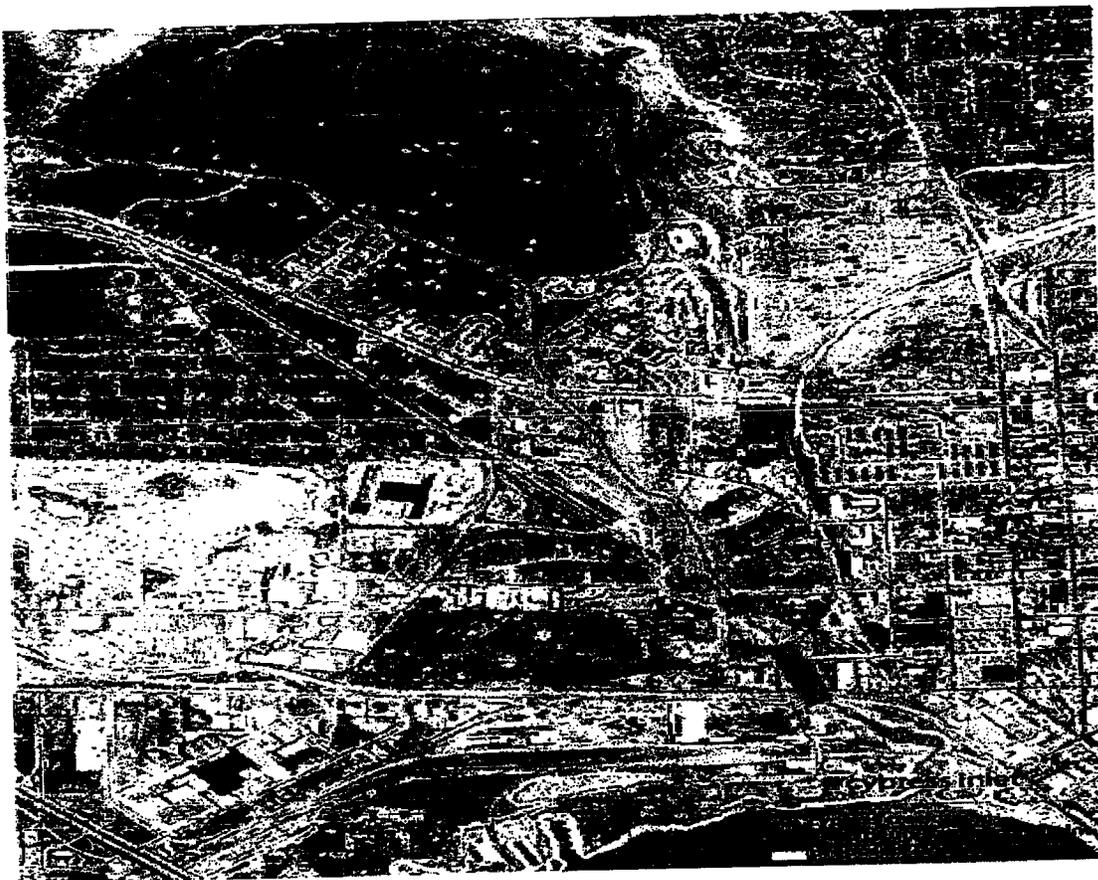


FIGURE 1

- c. **Factors Affecting the Scope and Level of Review.** The Cypress Creek Watershed is located in a heavily urbanized area. The part of the study that will be most challenging is acquiring real estate. Real estate easements will need to be acquired for the entire project area. However, real estate may be most challenging along the underground channel section in reach 5 and at the railroad in reach 6. The real estate surrounding reach 5 will need to be acquired in order to daylight this portion of the creek. Day lighting reach 5 is essential to improving aquatic habitat in the creek. An easement will be

obtained from the railroad company in order to perform jack and bore under the railroad tracks to enlarge the opening. Jack and bore will be the method used to reconnect the hydrology of Cypress Inlet to Cypress Creek. Reconnectivity of Cypress Inlet and Cypress Creek is necessary to allow aquatic species to move freely upstream and repopulate Cypress Creek.

The project is not likely to have significant economic, environmental, or social effects to the Nation or involve a significant threat to human life/safety. The project is an ecosystem restoration project consisting stream restoration. The project will reduce channel embeddedness, stabilize banks, and reconnect floodplains. The project will also provide educational and outreach opportunities. The project is not likely to have significant interagency interest, be highly controversial, contain influential scientific information or be a highly influential scientific assessment. The information in the decision document or proposed project design will not likely 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.

- 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. No in-kind contributions are anticipated at this time.

4. DISTRICT QUALITY CONTROL (DQC)

All documents to be produced will undergo DQC. The DQC review team will be responsible for performing a technical review of the Draft Feasibility Report including the EA, engineering, economics, real estate, cost and environmental appendices. The DQC review will be completed prior to submitting documents for ATR. Duties of the DQC team include the following:

- 1) Reviewing report contents for compliance with established principles and procedures, using clearly justified and valid assumptions.
- 2) Reviewing methods and procedures used to determine appropriateness, correctness and reasonableness of results.
- 3) Providing the review team leader with documentation of comments, issues, and decisions arising out of the DQC review. Comments, and resolutions, will be documented in a Microsoft Word document or by using DrChecks.
- 4) Capturing public input at scoping and public meetings. Public comments are solicited and accepted by various means: United States Postal Service, email, website, fax, or at the public and scoping meetings.

5. AGENCY TECHNICAL REVIEW (ATR)

- a. **Products to Undergo ATR.** ATR will be performed throughout the study in accordance with the District and SAD Quality Management Plans. The ATR shall be documented and discussed at the AFB milestone. Certification of the ATR will be provided prior to the District Commander signing the final report. Products to undergo ATR include at a minimum the AFB submittal materials, the draft decision and NEPA documents, and the final decision and NEPA documents.
- b. **Required ATR Team Expertise.** The ATR Team will consist of the individuals that represent the significant disciplines involved in the accomplishment of the work. The RMO (SAD), in cooperation

with the PDT and Vertical Team, will determine the final make-up of the ATR Team. The Review Management Office will coordinate with the Cost Engineering Directory PCX in Walla Walla District to provide the cost engineering review and resulting certification. At a minimum, the following disciplines will be represented on the ATR Team:

ATR Team Members/Disciplines	Expertise Required
ATR Lead	The ATR lead should be a senior professional 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. Typically, the ATR lead will also serve as a reviewer for a specific discipline (such as planning, economics, environmental resources, etc).
Planning	The Planning reviewer should be a senior water resources planner with experience in ecosystem restoration projects and be experienced in general planning policy and guidance.
Economics	Team member(s) should have extensive knowledge of the economic software IWR Planning Suite Decision Support Software and knowledge of CE/ICA.
Environmental Resources	Team member(s) should have extensive knowledge of the integration of environmental evaluation and compliance requirements, pursuant to national environmental statutes (NEPA), applicable executive orders and other Federal planning requirements, into the planning of Civil Works comprehensive plans and implementation projects.
Hydrology & Hydraulics	Team member(s) should have a thorough understanding of computer modeling techniques used for this project (WCS, SIAM, and HEC-RAS).
Cost Engineering	Team member(s) should be familiar with the most recent version of MCACES II software and total project cost summary. The Cost Reviewer is required to coordinate with the Walla Walla Cost Dx staff for further cost engineering review and resulting certification.
Real Estate	Team member(s) should have planning/appraisal/acquisition experience regarding ecosystem restoration type projects. Including, but not limited to, knowledge of estates to be acquired, induced flooding, zoning/buffer ordinances, and non-Federal Sponsor acquisition responsibilities.

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, SAD, 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)

- a. **Decision on IEPR.** Based on the information and analysis provided in paragraph 3(c) 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. At this time all of the criteria outlined in paragraph 1(b) would be met.
- 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. MODEL CERTIFICATION AND APPROVAL

a. **Planning Model.** IWR Planning Suite Support Software developed by the Institute of Water Resources will be used to evaluate the cost effectiveness and incremental cost of each potential restoration alternative, based on an estimated cost and projected benefits.

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification / Approval Status
IWR Planning Suite Support Software	IWR Planning Suite Decision Support Software developed by the Institute of Water Resources combines solutions to planning problems and calculates the additive effects of each combination or "plan." IWR Planning Suite assists with plan comparison by conducting cost effectiveness and incremental cost analyses.	Certified

b. **Engineering Models.** The following engineering models are anticipated to be used in the development of the decision document: Sedimentation Impact Analysis Method (SIAM), Hydrologic Engineering Center - River Analysis System (HECRAS), and Micro-Computer Aided Cost Estimating System (MCACES) II. WCS, SIAM and HEC-RAS will be used to evaluate flow, velocity, sediment delivery, and sediment budget for existing conditions and for future conditions with and without restoration. MCACES II will be the cost estimating software used to prepare a detailed labor, equipment and material cost estimate.

Model Name and Version	Brief Description of the Model and How It Will Be Applied in the Study	Certification/ Approval Status
Sedimentation Impact Analysis Method (SIAM)	Sediment Impact Analysis Methods (SIAM) provides a framework for combining morphological, hydrologic, and hydraulic information. The results develop a quantitative picture of sediment movement through a watershed more detailed than a qualitative geomorphic evaluation and less intensive than a numeric mobile boundary model.	Approved
Hydrologic Engineering Center – River Analysis System (HEC-RAS) 4.0	The Hydrologic Engineering Center’s River Analysis System (HEC-RAS) program provides the capability to perform one-dimensional steady and unsteady flow river hydraulics calculations	Approved
Micro-Computer Aided Cost Estimating System II	The Micro-Computer Aided Cost Estimating System II (MCACES) will be used to prepare a detailed labor, equipment and material cost estimate.	Approved

8. REVIEW SCHEDULE AND COST

- a. **ATR Schedule and Cost.** The cost for ATR is estimated at \$25,000. The documents and schedule are as follows:

ATR Review Documents	Schedule
Draft Alternative Formulation Briefing Package	November 2011
Alternative Formulation Briefing	February 2012
Draft Feasibility Report	April 2012
Final Feasibility Report	July 2012

- b. **Type I IEPR Schedule and Cost.** Not applicable.
- c. **Model Certification/Approval Schedule and Cost.** Model Certification/Approval. EC 1105-2-407 requires certification (for Corps models) or approval (for non-Corps models) of planning models used for all planning activities. The EC defines planning models 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 EC does not cover engineering models used in planning. Engineering software is being address under the Engineering and Construction (E&C) Science and Engineering Technology (SET) initiative. Until an appropriate process that documents the quality of commonly used engineering software is developed through the SET initiative, engineering activities in support of planning studies shall proceed as in the past. 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.

9. 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 RP will be made accessible to the public through the Mobile District website link <http://www.sam.usace.army.mil/>. Public review of the review plan can begin as soon as it is approved by the SAD Commander and posted by the Mobile District. Comments made by the public will be available to the review team. Public and interagency review for the EA will be conducted in accordance with NEPA, as outlined in ER 1105-2-100.

The RP will be available throughout all public and agency scoping and other processes for this project. Public input from the NEPA workshops and the public meetings will be available to the ATR members to ensure that public comments have been considered in the development of reviews and final reports. Public comments will be solicited and accepted by multiple means: United States Postal Service, email, website, fax or at the public and scoping meetings.

10. REVIEW PLAN APPROVAL AND UPDATES

The SAD 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 Mobile district is responsible for keeping the review plan up to date. After approved by the SAD, minor changes to the review plan will be documented in Attachment 3 of this RP. Significant changes to the review plan (such as changes to the scope and/or level of review) should be re-approved by the SAD Commander following the process used for initially approving the plan. Significant changes may result in the SAD 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.

11. 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, 251- 690-2872

Plan Formulator, 251-694-3809

South Atlantic Division Point of Contact, 404-562-5228

ATTACHMENT 3: REVIEW PLAN MINOR REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT 4: ACRONYMS AND ABBREVIATIONS

<u>Term</u>	<u>Definition</u>	<u>Term</u>	<u>Definition</u>
AFB	Alternative Formulation Briefing	NER	National Ecosystem Restoration
ATR	Agency Technical Review	NEPA	National Environmental Policy Act
CAP	Continuing Authorities Program	OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
CE/ICA	Cost Effective/Incremental Cost Analysis	PCX	Planning Center of Expertise
DQC	District Quality Control	PDT	Project Delivery Team
DX	Directory of Expertise	PAC	Post Authorization Change
EA	Environmental Assessment	PMP	Project Management Plan
EC	Engineer Circular	PL	Public Law
ECO-PCX	Ecosystem Planning Center of Expertise	QA	Quality Assurance
ER	Ecosystem Restoration	RMO	Review Management Organization
HEC-RAS	Hydrologic Engineering Center - River Analysis System	RP	Review Plan
HQSACE	Headquarters, U.S. Army Corps of Engineers	SAR	Safety Assurance Review
IEPR	Independent External Peer Review	SIAM	Sedimentation Impact Analysis Method
IWR	Institute of Water Resources	USACE	U.S. Army Corps of Engineers
MCACES	Micro-Computer Aided Cost Estimating System	WCS	Watershed Characterization System
MSC	Major Subordinate Command	WRDA	Water Resources Development Act