



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
SOUTH ATLANTIC DIVISION
60 FORSYTH STREET SW, ROOM 10M15
ATLANTA, GA 30303-8801

CESAD-PDP

DEC 2012

MEMORANDUM FOR Commander, Jacksonville District (CESAJ-PD/ [REDACTED])

SUBJECT: Review Plan Approval for Jacksonville Harbor, Florida Navigation Project, Integrated General Reevaluation Report and Supplemental Environmental Impact Statement (GRR2/SEIS)

1. References:

a. Memorandum, CESAJ-PD, 4 June 2012, subject: Jacksonville Harbor, Florida Navigation Project, Integrated General Reevaluation Report and Supplemental Environmental Impact Statement (GRR2/SEIS)—Request for MSC Approval of the Review Plan.

b. Memorandum, CESAM-PD-D, 30 May 2012, subject: Review Plan Approval, Jacksonville Harbor, Florida, Integrated General Reevaluation Report (GRR2) and (EIS), Jacksonville District.

c. EC 1165-2-209, Civil Works Review Policy, 31 January 2010.

2. The enclosed Review Plan for the Jacksonville Harbor, FL Navigation Project Integrated GRR2/SEIS has been prepared in accordance with Engineer Circular (EC) 1165-2-209.

3. The Review Plan has been coordinated with the National Deep Draft Navigation Planning Center of Expertise (DDNPCX) of the South Atlantic Division (SAD), which is the lead office to execute this plan. For further information, please contact the DDNPCX at (251) 694-3884. The Review Plan includes independent external peer review.

4. I hereby approve this Review Plan, which is subject to change as circumstances require, consistent with study development under the Project Management Business Process. Subsequent revisions to this Review Plan or its execution will require new written approval from this office.

5. The District should take steps to post the approved Review Plan and a copy of this approval memorandum to the SAJ District public internet website and provide a link to the DDNPCX for their use. Before posting to the website, the names of Corps/Army employees must be removed.

CESAD-PDP

SUBJECT: Review Plan Approval for Jacksonville Harbor, Florida Navigation Project,
Integrated General Reevaluation Report and Supplemental Environmental Impact Statement
(GRR2/SEIS)

6. The point of contact for this action is [REDACTED].

Encl



COL, EN
Commanding



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION/OF

CESAJ-PD

JUN 04 2012

MEMORANDUM FOR Chief, Planning and Policy, South Atlantic Division (CESAJ-PDS)

SUBJECT: Jacksonville Harbor, Florida Navigation Project, Integrated General Reevaluation Report and Supplemental Environmental Impact Statement (GRR2/SEIS) – Request for MSC Approval of the Review Plan

1. Reference: EC1165-2-209, "Civil Works Review Policy", dated 31 January 2010.
2. I hereby request approval of the enclosed subject Review Plan, consistent with the requirements of Reference 1.
3. The Review Plan was endorsed by the National Deep Draft Navigation Planning Center of Expertise (DDN-PCX) on May 30, 2012. The endorsement memo is enclosed, as is the review plan checklist.
4. Please contact [REDACTED] [REDACTED] [REDACTED] [REDACTED] if you should have any questions relating to the documentation provided.

3Encls





DEPARTMENT OF THE ARMY
MOBILE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 2288
MOBILE, ALABAMA 36628-0001

REPLY TO
ATTENTION OF:

CESAM-PD-D (1105-2-40a)

30 May 2012

MEMORANDUM FOR MR. JAMES M. BAKER (CESAJ-PD-PW, PROJECT MANAGER),
701 SAN MARCO BOULAVARD, U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE
DISTRICT, JACKSONVILLE, FLORIDA

SUBJECT: Review Plan Approval, Jacksonville Harbor, Florida, Integrated General
Reevaluation Report (GRR2) and (EIS), Jacksonville District

1. The Deep Draft Navigation Planning Center of Expertise (DDNPCX) has reviewed the Review Plan (RP) for the subject study and concurs that the RP satisfies peer review policy requirements outlined in Engineering Circular (EC) 1165-2-209 Civil Works Review Policy, dated 31 January 2010.
2. The review was performed by Mr. Bernard E. Moseby, Technical Director, DDNPCX. The RP checklist that documents the review is enclosed.
3. The DDNPCX recommends the RP for approval by the MSC Commander. Upon approval of the RP, please provide a copy of the approved RP, a copy of the MSC Commander Approval memorandum, and the link to where the RP is posted on the District website.
4. Thank you for the opportunity to assist in the preparation of the RP. Please coordinate any Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Model Certification efforts outlined in the RP with the Deputy Director, DDNPCX at (251) 694-3884.

Encls

A handwritten signature in black ink is visible above a large black rectangular redaction box.

CF:
CESAD-PDS/PAYNES
CESAD-PDS/STRATTON
CESAD-PDS/SMALL

Review Plan Checklist For Decision Documents

Date: 5/30/2012

Originating District: Jacksonville District

Project/Study Title: Jacksonville Harbor, Fl, Integrated General Reevaluation Report (GRR2) and (EIS)



Please fill out this checklist and submit with the draft Review Plan when coordinating with the appropriate PCX. Any evaluation boxes checked 'No' indicate the RP may not comply with EC 1165-2-209 (31 Jan 2010) and should be explained. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan.

REQUIREMENT	REFERENCE	EVALUATION
1. Is the Review Plan (RP) a stand alone document?	EC 1165-2-209 Para 7a	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as a RP and listing the project/study title, originating district or office, and date of the plan?		a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it include a table of contents?		b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Is the purpose of the RP clearly stated and EC 1165-2-209 referenced?		c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it reference the Project Management Plan (PMP) of which the RP is a component?		d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
e. Does it succinctly describe the three levels of peer review: District Quality Control (DQC), Agency Technical Review (ATR), and Independent Technical Peer Review (IEPR)?		e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
f. Does it include a paragraph stating the title, subject, and purpose of the decision document to be reviewed?		f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
g. Does it list the names and disciplines of the Project Delivery Team (PDT)?*	EC 1165-2-209 Appendix B Para 4a	g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p>		Comments:

<p>2. Is the RP detailed enough to assess the necessary level and focus of peer review?</p>	<p>EC 1165-2-209 Appendix B Para 3a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it indicate which parts of the study will likely be challenging?</p> <p>b. Does it provide a preliminary assessment of where the project risks are likely to occur and what the magnitude of those risks might be?</p> <p>c. Does it indicate if the project/study will include an environmental impact statement (EIS)?</p> <p><i>Is an EIS included? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>d. Does it address if the project report is likely to contain influential scientific information or be a highly influential scientific assessment?</p> <p><i>Is it likely? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>e. Does it address if the project is likely to have significant economic, environmental, and social affects to the nation, such as (but not limited to):</p> <ul style="list-style-type: none"> • more than negligible adverse impacts on scarce or unique cultural, historic, or tribal resources? • substantial adverse impacts on fish and wildlife species or their habitat, prior to implementation of mitigation? • more than negligible adverse impact on species listed as endangered or threatened, or to the designated critical habitat of such species, under the Endangered Species Act, prior to implementation of mitigation? <p><i>Is it likely? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p>	<p>EC 1165-2-209 Appendix B Para 3a</p> <p>EC 1165-2-209 Appendix B Para 3a</p> <p>EC 1165-2-209 Appendix B Para 1</p> <p>EC 1165-2-209 Para 15d</p> <p>EC 1165-2-209 Appendix B Para 7a</p> <p>EC 1165-2-209 Para 11d(3)(a)</p> <p>EC 1165-2-209 Para 11d(3)(a)</p> <p>EC 1165-2-209 Para 11d(3)(a)</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: An EIS will included</p>

<p>f. Does it address if the project/study is likely to have significant interagency interest?</p> <p><i>Is it likely? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>g. Does it address if the project/study likely involves significant threat to human life (safety assurance)?</p> <p><i>Is it likely? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>h. Does it provide an estimated total project cost?</p> <p><i>What is the estimated cost: \$100,000,000+ (best current estimate; may be a range)</i></p> <p><i>Is it > \$45 million? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>i. Does it address if the project/study will likely be highly controversial, such as if there will be a significant public dispute as to the size, nature, or effects of the project or to the economic or environmental costs or benefits of the project?</p> <p><i>Is it likely? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p> <p>j. Does it address if the information in the decision document will likely be based on novel methods, present complex challenges for interpretation, contain precedent-setting methods or models, or present conclusions that are likely to change prevailing practices?</p> <p><i>Is it likely? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i> <i>If yes, IEPR is required.</i></p>	<p>EC 1165-2-209 Appendix B Para 7a</p> <p>EC 1165-2-209 Appendix E Para 1a</p> <p>EC 1165-2-209 Para 11d(1)(b)</p> <p>EC 1165-2-209 Para 11d(1)(d)</p> <p>EC 1165-2-209 Para 16c(2)</p>	<p>f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>h. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comment: Estimated costs are Greater than \$45 million.</p> <p>i. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>j. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments:</p>
<p>3. Does the RP define the appropriate level of peer review for the project/study?</p>	<p>EC 1165-2-209 Para 7a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state that DQC will be managed by the home district in accordance with the Major Subordinate Command (MSC) and district Quality Management Plans?</p>	<p>EC 1165-2-209 Para 8a</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>b. Does it state that ATR will be conducted or</p>	<p>EC 1165-2-209</p>	<p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p>managed by the lead PCX?</p> <p>c. Does it state whether IEPR will be performed? <i>Will IEPR be performed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></i></p> <p>d. Does it provide a defensible rationale for the decision on IEPR?</p> <p>e. Does it state that IEPR will be managed by an Outside Eligible Organization, external to the Corps of Engineers?</p>	<p>Para 9c(1)</p> <p>EC 1165-2-209 Para 7a</p> <p>EC 1165-2-209 Para 7a</p> <p>EC 1165-2-209 Para 11c</p>	<p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>Comments:</p>
<p>4. Does the RP explain how ATR will be accomplished?</p>	<p>EC 1165-2-209 Para 9 & Appendix C</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it identify the anticipated number of reviewers?</p> <p>b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?</p> <p>c. Does it indicate that ATR team members will be from outside the home district?</p> <p>d. Does it indicate that the ATR team leader will be from outside the home MSC?</p> <p>e. Does the RP state that the lead PCX is responsible for identifying the ATR team members and indicate if candidates will be nominated by the home district/MS?</p> <p>f. If the reviewers are listed by name, does the RP describe the qualifications and years of relevant experience of the ATR team members?*</p> <p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p>	<p>EC 1165-2-209 Appendix B Para 4f</p> <p>EC 1165-2-209 Appendix B Para 4g</p> <p>EC 1165-2-209 Para 9c(1)(a)</p> <p>EC 1165-2-209 Para 9c</p> <p>EC 1165-2-209 Para 9c(1)</p> <p>EC 1165-2-209 Appendix B Para 4k(5)</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>f. Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>Comments: Review team members have not been identified by the DDNPCX yet.</p>
<p>5. Does the RP explain how IEPR will be</p>	<p>EC 1165-2-209</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p>

accomplished?	Para 10	
a. Does it identify the anticipated number of reviewers?	EC 1165-2-209 Appendix B Para 4f	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?	EC 1165-2-209 Appendix B Para 4g	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Does it indicate that the IEPR reviewers will be selected by an Outside Eligible Organization and if candidates will be nominated by the Corps of Engineers?	EC 1165-2-209 Para 11c	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it indicate the IEPR will address all the underlying planning, safety assurance, engineering, economic, and environmental analyses, not just one aspect of the project?	EC 1165-2-209 Para 11a	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments IEPR is required.
6. Does the RP address peer review of sponsor in-kind contributions?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does the RP list the expected in-kind contributions to be provided by the sponsor?	EC 1165-2-209 Appendix B Para 4j	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it explain how peer review will be accomplished for those in-kind contributions?		b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/> Comments: Fleet and Commodity Forecasts will be subject to DQC, ATR, and IEPR
7. Does the RP address how the peer review will be documented?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does the RP address the requirement to document ATR and IEPR comments using DrChecks?	EC 1165-2-209 Para 7d	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does the RP explain how the IEPR will be documented in a Review Report?	EC 1165-2-209 Para 7a	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/>
c. Does the RP document how written responses to the IEPR Review Report will be prepared?	EC 1165-2-209 Para 7d(2)	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/>
d. Does the RP detail how the district/PCX	EC 1165-2-209	

<p>will disseminate the final IEPR Review Report, USACE response, and all other materials related to the IEPR on the internet and include them in the applicable decision document?</p>	<p>Para 7d(2)(a)</p>	<p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>Comments: IEPR will be performed</p>
<p>8. Does the RP address Policy Compliance and Legal Review?</p>	<p>EC 1165-2-209 Appendix C Para 3a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments:</p>
<p>9. Does the RP present the tasks, timing and sequence (including deferrals), and costs of reviews?</p>	<p>EC 1165-2-209 Appendix B Para 4c</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it provide a schedule for ATR including review of the Feasibility Scoping Meeting (FSM) materials, Alternative Formulation Briefing (AFB) materials, draft report, and final report?</p> <p>b. Does it include interim ATR reviews for key technical products?</p> <p>c. Does it present the timing and sequencing for IEPR?</p> <p>d. Does it include cost estimates for the peer reviews?</p>	<p>EC 1165-2-209 Appendix C Para 3g(3)</p> <p>EC 1165-2-209 Appendix C Para 3g(3)</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments:</p>
<p>10. Does the RP indicate the study will address Safety Assurance factors?</p> <p>Factors to be considered include:</p> <ul style="list-style-type: none"> • Where failure leads to significant threat to human life • Novel methods\complexity\ precedent-setting models\policy changing conclusions • Innovative materials or techniques • Design lacks redundancy, resiliency of robustness • Unique construction sequence or acquisition plans • Reduced\overlapping design construction schedule 	<p>EC 1165-2-209 Appendix E</p>	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>Comments: No identified potential hazards that would pose a threat to human life</p>
<p>11. Does the RP address model certification requirements?</p>	<p>EC 1165-2-209 Appendix B Para 3a</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

<p>a. Does it list the models and data anticipated to be used in developing recommendations (including mitigation models)?</p> <p>b. Does it indicate the certification/approval status of those models and if certification or approval of any model(s) will be needed?</p> <p>c. If needed, does the RP propose the appropriate level of certification/approval for the model(s) and how it will be accomplished?</p>	<p>EC 1165-2-209 Appendix B Para 4i</p> <p>EC 1165-2-209 Appendix C Para 3k(1)</p> <p>EC 1165-2-209 Appendix C Para 3k(1)</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>Comments:</p>
<p>12. Does the RP address opportunities for public participation?</p>		<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it indicate how and when there will be opportunities for public comment on the decision document?</p> <p>b. Does it indicate when significant and relevant public comments will be provided to reviewers before they conduct their review?</p> <p>c. Does it address whether the public, including scientific or professional societies, will be asked to nominate potential external peer reviewers?</p> <p>d. Does the RP list points of contact at the home district and the lead PCX for inquiries about the RP?</p>	<p>EC 1165-2-209 Appendix B Para 3a</p> <p>EC 1165-2-209 Appendix B Para 4e</p> <p>EC 1165-2-209 Appendix B Para 4h</p> <p>EC 1165-2-209 Appendix B Para 4a</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Comments: c. External Peer Review is required</p>
<p>13. Does the RP address coordination with the appropriate Planning Centers of Expertise?</p>		<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state if the project is single or multi-purpose? Single <input checked="" type="checkbox"/> Multi <input type="checkbox"/></p> <p>List purposes: Deep Draft Navigation</p> <p>b. Does it identify the lead PCX for peer review? Lead PCX: DD</p> <p>c. If multi-purpose, has the lead PCX coordinated the review of the RP with the other PCXs as appropriate?</p>	<p>EC 1165-2-209 Appendix D Para 3c</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>Comments: Coordination with ECOPCX on environmental models - approvals and certifications</p>

<p>14. Does the RP address coordination with the Cost Engineering Directory of Expertise (DX) in Walla Walla District for ATR of cost estimates, construction schedules and contingencies for all documents requiring Congressional authorization?</p>	<p>EC 1165-2-209 Appendix D Para 3</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state if the decision document will require Congressional authorization?</p> <p>b. If Congressional authorization is required, does the state that coordination will occur with the Cost Engineering DX?</p>		<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> n/a <input type="checkbox"/></p> <p>Comments:</p>
<p>15. Other Considerations: This checklist highlights the minimum requirements for an RP based on EC 1165-2-209. Additional factors to consider in preparation of the RP include, but may not be limited to:</p> <p>a. Is a request from a State Governor or the head of a Federal or state agency to conduct IEPR likely?</p> <p>b. Is the home district expecting to submit a waiver to exclude the project study from IEPR?</p> <p>c. Are there additional Peer Review requirements specific to the home MSC or district (as described in the Quality Management Plan for the MSC or district)?</p> <p>d. Are there additional Peer Review needs unique to the project study?</p>	<p>EC 1165-2-209 Appendix D Para 1b(3&4)</p> <p>EC 1165-2-209 Para 11d</p>	<p>Comments:</p> <p>a. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>b. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Comments: IEPR will be performed</p> <p>c. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>d. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Detailed Comments and Back check:</p>		

REVIEW PLAN

**Jacksonville Harbor, FL
Navigation Project
Integrated General Reevaluation Report (GRR2)
And Environmental Impact Statement (EIS)**

Jacksonville District

MSC Approval Date: December, 2012

Last Revision Date: December, 2012



**US Army Corps
of Engineers ®**

REVIEW PLAN

**Jacksonville Harbor, Florida
Navigation Project
Integrated General Reevaluation Report (GRR2)
and Environmental Impact Statement (EIS)**

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1. PURPOSE AND REQUIREMENTS

a. **Purpose.** This Review Plan defines the scope and level of peer review for the Jacksonville Harbor, Florida Navigation Project, Integrated General Reevaluation Report and Supplemental Environmental Impact Statement (GRR2/SEIS).

b. 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, 31 Mar 2011
- (3) Engineering Regulation (ER) 1110-1-12, Quality Management, 21 Jul 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 Navigation Study for Jacksonville Harbor General Reevaluation Report, November 2008

c. **Requirements.** This review plan was developed in accordance with EC 1165-2-209, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, construction, and operation, maintenance, repair, replacement and rehabilitation (OMRR&R). The EC outlines four general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. In addition to these levels of review, 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).

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 National Deep Draft Navigation Planning Center of Expertise (DDNPCX). The DDNPCX will coordinate approval for use of environmental mitigation models with the National Ecosystem Restoration Planning Center of Expertise (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 decision document is the Jacksonville Harbor, Florida Navigation Project GRR2/SEIS. The GRR2 purpose is to determine the possibility of widening and deepening Jacksonville Harbor in order to improve navigational efficiency of the harbor. Examination of 1-foot incremental depths from the existing project depth of 40 feet up to a possible 50-foot project depth would include a study area from the entrance channel to river mile 14. The study area was determined in cooperation with the non-federal sponsor, the Jacksonville Port Authority (Jaxport), and with evaluation of preliminary cost and benefit evaluation. To determine what increment would optimize net benefits the study area is further refined into segments: Segment 1 (entrance channel to River Mile 14) and Segment 2 (River Mile 14-20) have an existing authorized depth of 40 feet. Segment 3 (West Blount Island Channel) has an existing authorized depth of 38 feet. The purpose of the focus of the current study is Segment 1. Documentation of the SEIS is integrated within the decision document. The document is to be approved at the Headquarters level, and Congressional Authorization is required.

b. Study/Project Description.

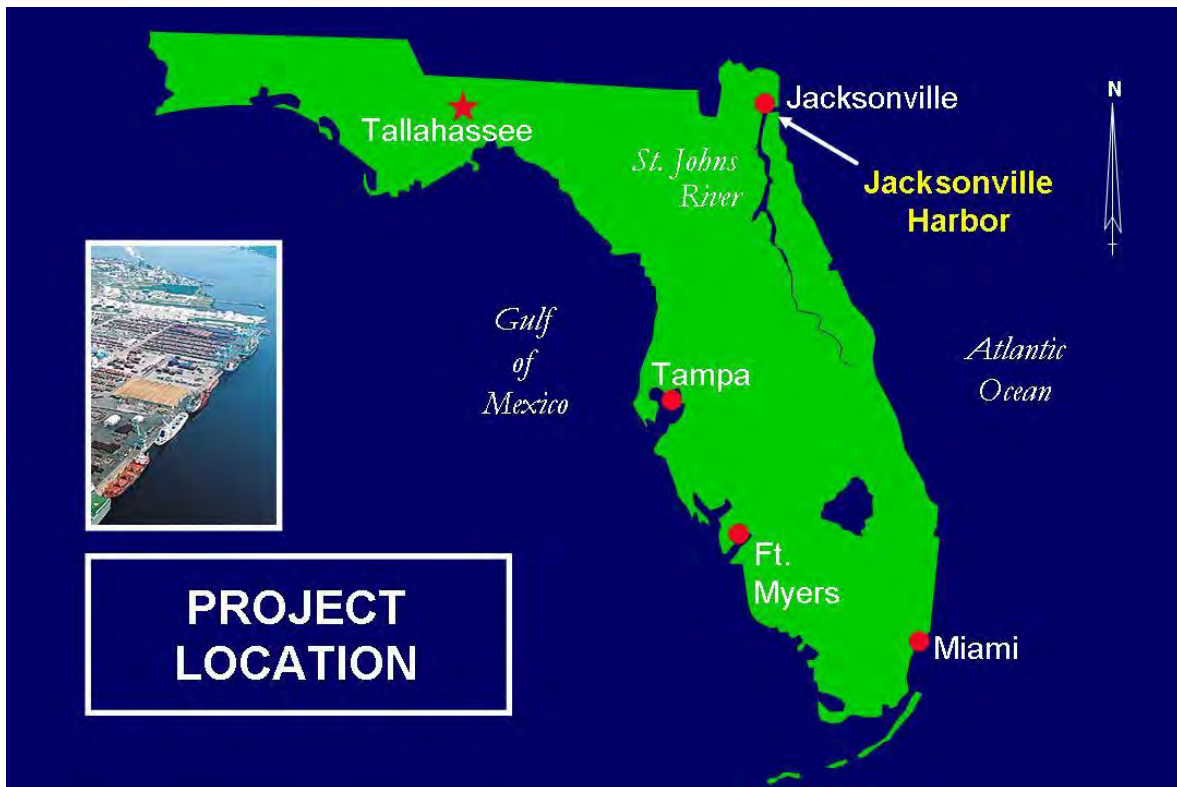


Figure 1: Project Location

Jacksonville Harbor is a part of the St. Johns River. Deep Draft vessels primarily transit Jacksonville Harbor from the Atlantic Ocean to the Terminal Channel Cut (River Mile 20). Jacksonville Harbor has an

authorized project depth of 40 feet from mile 0 to mile 20 and an authorized project depth of 38 feet in the West Blount Island Channel (Cuts F and G).

Federal participation in operation and maintenance of Jacksonville Harbor began in 1880. The Water Resources Development Act (WRDA) of 1999 authorized the harbor to be deepened to 40 feet from the Entrance Channel to river mile 14.7. The House of Representatives Energy and Water Appropriations Act, 109 Congress, 1st Session, Report 109-275, Conference Report, printed November 7, 2005, authorized deepening to 40 feet from river mile 14.7 to 20. House Document 214 (in 1992) and House Report 107-681 (in 2003) authorize a General Reevaluation Report to study Jacksonville Harbor. Specific planning objectives for the reevaluation of Jacksonville Harbor include:

- Decrease transportation costs associated with existing commercial ship delays from light loading, use of high tides;
- Provide for the navigational safety;
- Develop the most cost effective means for disposal of new construction and maintenance dredged material over the 50-year project evaluation period;
- Integrate beneficial uses of dredged material such as manufactured soils, recycling of dredge material for construction fill, development of artificial reefs, or use of beach quality material for placement along adjacent beaches as part of a least cost dredged material management plan over the economic life of the project;
- Identify the NED plan for Jacksonville Harbor which most efficiently and safely accommodates existing and larger commercial ship and barge traffic while avoiding or minimizing impacts to environmental resources.

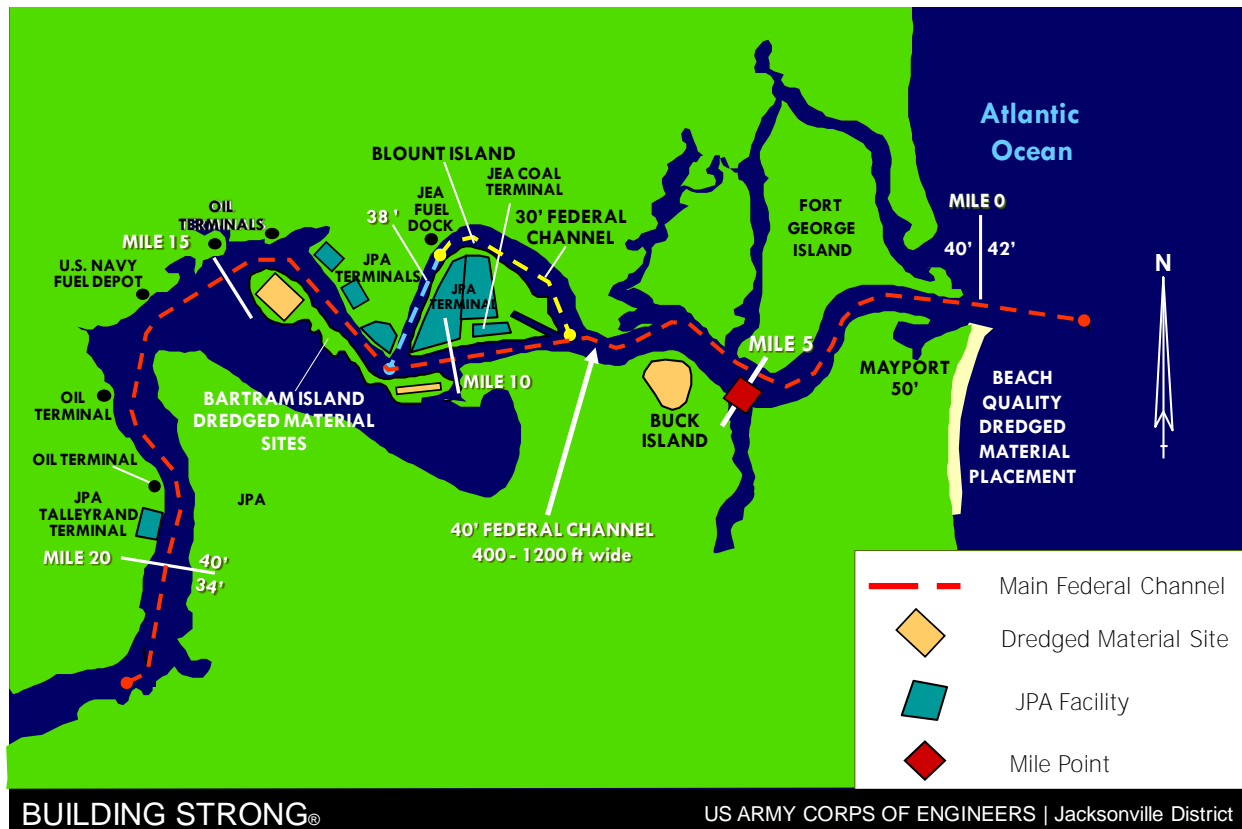


Figure 2: Existing Federal Project

c. Factors Affecting the Scope and Level of Review.

This section discusses the factors affecting the risk informed decisions on the appropriate scope and level of review. The discussion is intended to be detailed enough to assess the level and focus of review and support the PDT, PCX, and vertical team decisions on the appropriate level of review and types of expertise represented on the various review teams. Factors affecting the risk informed decisions on the appropriate scope and level of review include the following:

- *If parts of the study will likely be challenging (with some discussion as to why or why not and, if so, in what ways – consider technical, institutional, and social challenges, etc.);*

The project is expected to have above normal technical institutional and social challenges that are typical with navigation studies (policy, economics, and environmental mostly due to large scope of the project in size and cost).

- *A preliminary assessment of where the project risks are likely to occur and what the magnitude of those risks might be (e.g., what are the uncertainties and how might they affect the success of the project);*

During the Planning Charette the PDT along with the Vertical Team built a risk register to identify areas of risk and uncertainty. Using this technique the team discussed the options and gained support for moving forward. One of the risk register items is to do an abbreviated (per

the planning charette an abbreviated VE will take place during the feasibility phase and will be fully developed through the PED phase) Value Engineering Analysis to support the TSP. The study and plan formulation process will determine the TSP, VE will analyze the proposed future operations and construction techniques to determine if they are the most cost effective. Use of Corps approved economic, environmental and engineering models will be utilized.

- *If the project will likely be justified by life safety or if the project likely involves significant threat to human life/safety assurance (with some discussion as to why or why not and, if so, in what ways – consider at minimum the safety assurance factors described in EC 1165-2-209 including, but not necessarily limited to, the consequences of non-performance on project economics, the environmental and social well-being [public safety and social justice]; residual risk; uncertainty due to climate variability, etc.) – the discussion of life safety should include the assessment of the home District Chief of Engineering on whether there is a significant threat to human life associated with the project (per EC 1165-2-209 Frequently Ask Question 3.i.);*

The project will not be justified by life safety and will not pose a significant threat to human life.

- *If there is a request by the Governor of an affected state for a peer review by independent experts;*

The Governor of Florida has not requested a peer review by independent experts.

- *If the project/study is likely to involve significant public dispute as to the size, nature, or effects of the project (with some discussion as to why or why not and, if so, in what ways);*

The project/study will likely involve significant public dispute as to the size, nature, or effects of the project. Some areas of concern may be:

- potential mitigation for possible salinity and dissolved oxygen impacts due to deepening,
- pre-treatment of rock areas within the Federal channel or blasting concerns from adjacent home owners,
- environmental concerns involving the potential expansion of Bartram Island into open water habitat,
- right whale and manatee concerns due to increased commercial ship traffic,
- potential bank erosion concerns from the National Park Service (NPS) and home owners, and
- potential impact to the Total Maximum Daily Loads (TMDL) nutrient load allocations of permitted dischargers that were based upon a previous depth of the river channel.

- *If the project/study is likely to involve significant public dispute as to the economic or environmental cost or benefit of the project (with some discussion as to why or why not and, if so, in what ways);*

Yes; significant public dispute is anticipated on environmental cost or benefit of the project.

- *If the information in the decision document or anticipated project design is 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 (with some discussion as to why or why not and, if so, in what ways); and*

The information in the decision document or project design would in part 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 will use the same design and construction techniques that have been used in the past on this same project and other similar projects throughout the region and uses the USACE preferred economic model; however, ecological and water quality models created by the St. Johns River Water management would be adapted for this study.

- *If the project design is anticipated to require redundancy, resiliency, and/or robustness, unique construction sequencing, or a reduced or overlapping design construction schedule (with some discussion as to why or why not and, if so, in what ways).*

The proposed project design does not require any additional redundancy, resilience, or robustness.

d. In-Kind Contributions. Products and analyses provided by non-Federal sponsors as in-kind services are subject to District Quality Control (DQC), Agency Technical Review (ATR), and Independent External Peer Review (IEPR). JAXPORT's in-kind contributions include the Global Insight and MSI contracts for fleet forecast (estimated at \$300,000) and PDT coordination.

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 or appropriate Planning Center of Expertise will 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.

District Quality Control will be conducted at the district level where each of the DQC team members will review the documents for accuracy of content related to their field. DQC will be conducted on the draft and final documents prior to submittal to ATR. The DQC team will be composed of persons independent of the PDT conducting the GRR2 and shall consist of at a minimum of engineering, plan formulation, environmental, and legal disciplines. DQC team member for the economics will be provided by the Deep Draft Navigation Planning Center of Expertise (DDN-PCX) as their role as an Economic production center. A DQC certification sheet and documentation of the DQC reviews will be provided to the ATR team to reflect that the district is satisfied with the quality of the document. The certification shall include a statement from each reviewer confirming they have reviewed the document, provided comments and comments were satisfactorily resolved, and shall be signed by each reviewer.

b. Products to Undergo DQC.

The draft and final versions of the subject GRR2/SEIS will undergo DQC.

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.

The Draft GRR2/SEIS will undergo ATR. The Final GRR2 will undergo an ATR consisting of backchecks to previous comments received to ensure appropriate revisions have been made to the report. The cost estimate associated with the GRR2 will undergo ATR through the Cost DX.

b. Required ATR Team Expertise.

The ATR team will be made up of personnel determined by the DDNPCX. The expertise represented on the ATR team should reflect the significant expertise involved in the work effort and will generally mirror the expertise on the PDT. Based on the factors affecting the scope and level of review outlined in Section 3 it is suggested that the review team include the disciplines listed in the below table.

ATR Team Members/Disciplines	Expertise Required
Plan Formulator / 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 will also serve as the Plan Formulation reviewer. They should be a senior water resources planner with experience in navigation projects and associated planning reports and documents. The ATR Lead will be from a district outside the MSC.
Economics	The economist will be an expert in the economic assessment of deep draft navigation projects, including commodity and fleet projections, to assess the economic analyses for appropriateness of assumptions, analytical methods, and overall application of both. Experience in HarborSym required. Person will be secured through the DDNPCX.

Environmental Resources	The environmental reviewer will be an expert in the field of environmental resources and have a thorough understanding of NEPA, as related to inland and marine navigation and waterways to assess whether or not all NEPA requirements were, or will be met. UMAM along with other ecological and water quality models will be used.
Geotechnical Engineering	Expertise in geotechnical soils and construction to review upland disposal sites and materials assessment.
Cost Engineering	The cost engineering reviewer will be an expert in the field of cost engineering and have a thorough understanding of cost formulation for deep draft navigation projects, including dredging, disposal and structural elements. The cost engineer should be Walla Wall Cost DX approved cost reviewer as the cost estimate for this document is anticipated to need CSRA and Cost DX review and Certification. Experience in MII required to review MCACES costs.
Hydraulics and Hydrology	The hydraulic engineer will be an expert in conducting hydrodynamic model studies of navigable waterways to assess whether or not hydrodynamic modeling analyses and conclusions are reasonable. The ADH-Sedran model will need to be approved through ATR.
Real Estate	The Real Estate Reviewer will be an expert in land acquisition and valuation to assess whether or not real estate analyses and conclusions are reasonable. Experience in preparation of Real Estate Plans and knowledge of EC 405-2-12 (Real Estate Planning and Acquisition Responsibilities for Civil Works Projects) and ER 405-1-12 (Chapter 12 – Real Estate Roles and Responsibilities for Civil Works: Cost Shared and Full Federal Projects), should be considered
Civil Engineer	Civil Engineer with experience in Deep Draft Navigation.

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. Editorial comments are welcome but will be documented and provided to the PDT informally. 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 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 and permanent 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 interim and final report. A sample Statement of Technical Review is included in Attachment 2.

6. INDEPENDENT EXTERNAL PEER REVIEW (IEPR)

IEPR is the most independent level of review for project studies 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 reviews are managed outside the USACE, panel members will be selected by an Outside Eligible Organization using the National Academies of Science (NAS) policy for selecting reviewers. 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.
- **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.

- **Type I IEPR.** The estimated total cost of the project, including mitigation costs, is expected to be far greater than \$45 million. Furthermore, an EIS is being prepared and there may be controversy associated with environmental impacts. Therefore, Type I IEPR will be performed.
- **Type II IEPR.** A risk-informed decision concerning the timing and appropriate level of reviews for project implementation phase will be prepared and submitted for approval in an updated Review Plan prior to initiation of the PED/Design/implementation phase of this project. The need for a Type II IEPR will be re-evaluated in that Review Plan.

b. **Products to Undergo Type I IEPR.** The products for review include the Integrated GRR2 and EIS and supporting Appendices (Engineering, Environmental, Economics, and Real Estate).

c. **Required Type I IEPR Panel Expertise.**

IEPR Panel Members/Disciplines	Expertise Required
Biologist	Estuarine and riverine Northeast Florida ecosystems - littoral zone, wetlands, fish, macroinvertebrates, plankton, and water quality including TMDL programs. Should be from academia, public agency, non-governmental entity, or an Architect-Engineer or Consulting Firm with a minimum 10 years demonstrated experience with projects on the southeastern Atlantic coast of the United States. Panelist should have particular knowledge of the ecological value of estuarine and riverine habitats; hydrodynamic, ecological, and water quality modeling; as well as knowledge of how proposed deepening for deep draft navigation may affect these ecosystems.
Biologist or Environmental Engineer	This individual should be a scientist from academia, a public agency, a non-governmental entity, or an Architect-Engineer or Consulting Firm with a minimum 10 years demonstrated experience in environmental, estuarine, and coastal and estuarine processes and an understanding of ecological responses to shoreline erosion The Panel Member should have a minimum MS degree or higher in an appropriate field of study. Experience should include an understanding of environmental impacts associated with dredging. Active participation in related professional societies is encouraged.
Engineering (Dredging/Navigation Expert)	One Hydraulic or Civil Engineering Panel Members will be provided. The Engineering Panel Member should be a registered professional engineer with a minimum of 10 years experience from academia or an Architect-Engineer or Consulting Firm. The Panel Member should have demonstrated experience in deep draft navigation channels, dredged material disposal, confined disposal areas, erosion, coastal currents, channel modifications, with a minimum MS degree or higher in Civil, Hydraulic or related Engineering field. Active participation in related professional societies is encouraged.
Economist	One Economics Panel Members will be provided. The Economics Panel Member should be a scientist from academia, a public agency, a non-governmental entity, or an Architect-Engineer or Consulting Firm with at least a Bachelors degree. Member must have at least 10 years experience in economic analysis, with project experience including evaluating and conducting multi-objective public

	works projects or transportation-related projects. Deep-draft navigation experience is encouraged. Experience directly working for or with USACE is highly recommended.
Plan Formulation	This individual should be a scientist from academia, public agency, non-governmental entity, or an Architect-Engineer or Consulting Firm with a minimum 10 years demonstrated experience in evaluating and comparing alternative plans for USACE.

d. Documentation of Type I IEPR.

DrChecks review software will be used to document IEPR comments and aid in the preparation of the Review Report. Comments 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 3. The IEPR team will be responsible for compiling and entering comments into DrChecks. The IEPR team will prepare a Review Report that will accompany the publication of the final report for the project 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 IEPR panel no later than 60 days following the close of the public comment period for the draft decision document. The report will be considered and documentation prepared on how issues were resolved or will be resolved by the District Commander before the district report is signed. The recommendations and responses will be presented to the Civil Works Review Board (CWRB) by the District Commander with an IEPR panel member participating, preferable in person.

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. Economic Models.

The economic evaluation for improved efficiency will use the HarborSym Deepening model. Since HarborSym is a certified Corps model and the model itself will not need a review. However, there will be an ATR for input/output verification and for any spreadsheet calculations used to derive model inputs (i.e., loading factors, commodity growth rates, fleet growth, etc.). Verification of proper application will be conducted by the DDNPCX as part of the DQC and ATR process.

b. Environmental Models. Uniform Mitigation Assessment Method (UMAM) will most likely be used to evaluate the values and functions of wetlands within the impact area. It would need an approval for use through the ECO-PCX and Corps Head Quarters. If there is a programmatic approval to use UMAM within the District an approval for use will not be sought. Water Quality Model (TMDL), Submerged Aquatic Vegetation, Wetlands, Benthic Macroinvertebrates, Plankton, Fish ecological models will also need ECO-PCX and HQ approvals.

c. Engineering Models.

- CoP Preferred models can be used for the feasibility phase as long as its capabilities and limitations are consistent with the needs of the particular project. The following models are preferred under the Hydrology, Hydraulics and Coastal Community of Practice's (HH&C CoP) software validation process which satisfy the requirements of the Corps' Scientific and Engineering Technology (SET) initiative:
 - ADCIRC
 - ADH-Hydro
 - CMS-Flow
 - CMS-Wave
 - CMS-Sedtran
- Allowed for Use models require a justification for use which will be done through ATR approval:
 - ADH-Sedtran
 - EFDC-Salinity
 - CE-QUAL-ICM
 - USGS-Groundwater model/SEAWAT Density Flow and Transport Model

d. Model Certification/Approval Schedule and Cost.

- The HarborSym model is anticipated has been certified at no cost to the study. The environmental models; UMAM, Water Quality Model (TMDL): CE-QUAL-ICM SJRWMD Ecological Models: Littoral Zone, Wetlands, Benthic Macroinvertebrates, Plankton, Fish will undergo Eco-PCX and HQ approvals. The anticipated start date is October 2012 with an estimated cost of \$100,000 to conduct these reviews. Depending on the level of effort required for these reviews, the cost is subject to change.

10. REVIEW SCHEDULES AND COSTS

Review	Start Date	Duration
DQC	March 2013	3 weeks
ATR and Legal Review	May 2013	5 weeks
Policy Review (SAD/HQ)	May 2013	5 weeks
Public Review (NEPA)	May 2013	10 weeks
IEPR	May 2013	10 weeks

a. ATR Schedule and Cost.

ATR will take place after Jacksonville District has completed the Draft and Final GRR2 and Draft and Final EIS, and the documents have undergone DQC. ATR of the draft documents is scheduled to begin May 2013, and ATR of the final documents is scheduled for August 2013. The ATR of the draft document, including cost certification, will cost approximately \$30,000 and take approximately 5 weeks (2 weeks for the ATR team to provide comments, 2 weeks for the PDT to coordinate and

provide responses, and 1 week for back check and close-out of the ATR). The ATR of the final document will be a shorter review since it will be a backcheck to ensure that resolve to previous comments has been reflected in the document. The ATR of the final document will cost approximately \$20,000 and take approximately 2 weeks.

- b. Type I IEPR Schedule and Cost.** The anticipated start is May 2013. The IEPR is estimated to take 3 months and cost \$150,000-\$200,000.

11. PUBLIC PARTICIPATION

Public involvement is anticipated throughout the preparation of the Decision Document. Public information meetings are conducted to inform the general public, other federal and state agencies and interested stakeholders of the status of the project and alternatives being considered. At a minimum, public meetings have, or will be conducted as part of the National Environment Policy Act (NEPA) compliance process, including: Public scoping meetings and the public review period of the Draft Environmental Impact Statement, anticipated for Summer 2013.

12. REVIEW PLAN APPROVAL AND UPDATES

The South Atlantic 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 will change and be updated as the study progresses. The Jacksonville 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

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

- Jacksonville District Project Manager (904)232-1381
- Jacksonville District Planning Technical Lead (904)232-1979
- Jacksonville District Review Coordinator (904)232-2698
- RMO, CSDR-PCX POC (347)370-4571
- ECO-PCX POC (309)794-5448
- South Atlantic Division POC (404)562-5228

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 1165-2-209. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the 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

Name
ATR Team Leader
Office Symbol/Company

Date

SIGNATURE

Name
Project Manager
Office Symbol

Date

SIGNATURE

Name
Architect Engineer Project Manager¹
Company, location

Date

SIGNATURE

Name
Review Management Office Representative
Office Symbol

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: [Describe the major technical concerns and their resolution.](#)

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

SIGNATURE

[Name](#)

Chief, Engineering Division

[Office Symbol](#)

Date

SIGNATURE

[Name](#)

Chief, Planning Division

[Office Symbol](#)

Date

¹ Only needed if some portion of the ATR was contracted

ATTACHMENT 3: REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number
March 2012	RP revised to conform with June 2011 Template, revise schedule, and add description of environmental mitigation models and commitments for environmental mitigation model approval process.	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
CSDR	Coastal Storm Damage Reduction	O&M	Operation and maintenance
DPR	Detailed Project Report	OMB	Office of 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
GRR2	Limited Reevaluation Report	USACE	U.S. Army Corps of Engineers
MSD	Major Subordinate Command	WRDA	Water Resources Development Act