



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NORTHWESTERN DIVISION
PO BOX 2870
PORTLAND OR 97208-2870

CENWD-RBT

13 DEC 2012

MEMORANDUM FOR Commander, Walla Walla District (CENWW-PM-PD-PF/Richard Turner)

SUBJECT: Review Plan (RP) Approval for Lower Snake River Fish and Wildlife Compensation Plan, Idaho, Oregon and Washington, Walla Walla District, Northwestern Division

1. References:

a. Memorandum, CENWW-PM-PD-PF, 5 December 2012, subject: Lower Snake River Fish and Wildlife Compensation Plan, Idaho, Oregon, and Washington, Walla Walla District, Northwestern Division, Review Plan Submittal (Encl).

b. EC 1165-2-209 Change 1, Civil Works Review Policy, 31 January 2012.


2. Reference 1.a. above has been prepared in accordance with reference 1.b. above.

3. The RP has been coordinated with the Business Technical Division and the Planning, Environmental Resources, Fish Policy and Support Division, Northwestern Division, U.S. Army Corps of Engineers, Northwestern Division, U.S. Army Corps of Engineers. The RP includes both District Quality Control and Agency Technical Review (ATR) for work products. NWD will be the Review Management Organization for those work products requiring ATR.

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

5. For further information, please contact Mr. Steve Bredthauer at (503) 808-4053.

Encl


ANTHONY C. FUNKHOUSER, P.E.
COL, EN
Commanding



DEPARTMENT OF THE ARMY
WALLA WALLA DISTRICT, CORPS OF ENGINEERS
201 NORTH THIRD AVENUE
WALLA WALLA, WA 99362-1876

REPLY TO
ATTENTION OF


CENWW-PM-PD-PF (1105)

MEMORANDUM FOR Commander, Northwestern Division, P.O. Box 2870, Portland, OR
97209

SUBJECT: Lower Snake River Fish and Wildlife Compensation Plan, Idaho, Oregon, and
Washington Walla Walla District, Northwestern Division, Review Plan Submittal

1. Enclosed for Major Subordinate Command (MSC) Commander approval is the Lower Snake River Fish and Wildlife Compensation Plan, Review Plan. This Review Plan has been prepared according to EC-1165-2-209, Civil Works Review Policy.
2. If you have any further questions please contact Richard Turner, Project Manager, at 509-527-7625 or email at Richard.C.Turner@usace.army.mil.

Encl


ANDREW D. KELLY
LTC, EN
Commanding

**PROJECT REVIEW PLAN
FOR
LOWER SNAKE RIVER FISH AND WILDLIFE COMPENSATION
PLAN WORK PRODUCTS**

Walla Walla District

**MSC Approval Date: Pending
Last Revision Date: None**



**US Army Corps
of Engineers ®**

**PROJECT REVIEW PLAN
For
LOWER SNAKE RIVER FISH AND WILDLIFE COMPENSATION PLAN
WORK PRODUCTS**

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1. PURPOSE AND REQUIREMENTS

- a. **Purpose.** This document will serve as Walla Walla District's overarching project review plan for all work products within the Lower Snake River Fish and Wildlife Compensation plan (LSRFWCP, CWIS 079016). This plan documents the process necessary for determining the level of review required for various products. While it is unlikely any work product within the LSRFWCP will require an Independent External Peer Review (IEPR), if a project delivery team (PDT) identifies significant risk to life safety or human life with a particular action, it may be subject to a Type II IEPR Safety Assurance Review (SAR). The purpose of this Project Review Plan is to ensure that a consistent review process is applied to all work products within the LSRFWCP, from initial planning through construction. The Chief of Engineering and Construction is responsible for ensuring the integrity of this process is upheld for products within the LSRFWCP.
- b. **Applicability.** This review plan is applicable to all LSRFWCP work products as defined in Engineer Circular (EC) 1165-2-209, *Civil Works Review Policy*. It lays out the process used to determine the type of review conducted for each work product. All LSRFWCP projects requiring only District Quality Control (DQC) review fall under the umbrella of this review plan and will not require separate review plan approvals. In all cases where an Agency Technical Review (ATR) or IEPR is determined necessary, a product-specific review plan will be prepared at the time the determination is made; and will be submitted for approval under separate cover.

c. References

- (1) Engineering Circular (EC) 1165-2-209, Civil Works Review Policy, 31 Dec 2009
- (2) Engineering Regulation (ER) 1105-2-100, Planning Guidance Notebook
- (3) ER 1110-1-12, Quality Management, 30 Sep 2006
- (4) NWW QMS 5502 – Civil Works Review Process (Review Plans)

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 LSRFWCP projects requiring only DQC review will be Walla Walla District. For projects requiring an ATR, the RMO will be Northwestern Division (NWD). If a Type II IEPR SAR is determined necessary, the RMO will be the US Army Corps of Engineers (Corps) Risk Management Center (RMC). The Walla Walla District will post any approved product-specific review plans on its public website, and ensure a copy of the approved review plan (and any updates) is provided to the dedicated review team.

3. PROJECT INFORMATION

- a. **Scope.** The LSRFWCP provides fish and wildlife compensation for construction of the four mainstem dams on the lower Snake River. The project consists of hatcheries providing 27,000,000 juvenile Chinook salmon and steelhead annually for release in streams for migration to the Pacific Ocean. Adult salmon and steelhead from these releases will provide both sport and commercial fishing opportunities, with over 4 million pounds of fish going to commercial fisheries and providing approximately 689,000 additional angler days of sport fishing. An estimated 132,000 adult fish will return to the project area. In addition to anadromous fish, 93,000 pounds of trout will be reared and released in Eastern Washington, providing 45,000 additional angler days of sport fishing. An aggregate of 24,150 acres in fee or easement for fisherman access, wildlife habitat, and hunting

access is also available. Additionally, a program implemented with Washington State Department of Fish and Wildlife (WDFW) produced the equivalent of 20,000 game birds per year for 20 years. The 1989 Letter of Agreement (LOA) entered into by the US Fish and Wildlife Service (USFWS), the Corps, and WDFW states that Lower Snake River Fish and Wildlife Plan mitigation, as authorized by Public Laws (PLs) 94-587 and 99-662, will be measured on a habitat basis instead of using “animal number replacement” as a basis for measurement. The “Special Report – Lower Snake River Fish and Wildlife Compensation, Wildlife Habitat Compensation Evaluation for the Lower Snake River Project” (June 1991) concluded that “Current habitat conditions of project lands do not contribute significantly to meeting compensation goals...” This project will restore 1,916 acres of project habitat; 3,285 acres of project woody riparian land; and 24,271 acres of project grass/shrub steppe land to pre-project conditions. Additional project restoration effort would include creation of small forested islands and shallows to provide the additional benefit of creating substantial natural salmon spawning and rearing habitat.

The remaining LSRFWCP products consist of planting native upland grasses and shrubs, and riparian shrubs and trees, along the lower Snake River.

- b. **Authorization.** River and Harbor Act of 1945; Water Resources Development Act (WRDA) 1976, 1986, 2007

4. REVIEWS DEFINED

All work products within the LSRFWCP will adhere to the requirements of EC 1165-2-209, by following the guidelines established within this review plan. All engineering and design products will undergo scaled DQC Reviews. Risk factors will determine if an ATR or higher-level review is required in addition to DQC. For each work product within the LSRFWCP, a Quality Management Plan (QMP) will be written within the Project Management Plan (PMP). The QMP will include Quality Control Plans (QCP) and Quality Assurance Plans (QAP) required for product deliverables, and identify quality control and quality assurance requirements for the overall work product, including work performed by contractors.

- a. **District Quality Control (DQC).** The DQC-level review is an internal technical review process of basic science and engineering work products focused on fulfilling the project quality requirements defined in the PMP. Basic quality control tools include a QMP as part of the PMP providing for seamless review, quality checks and reviews, supervisory reviews, and PDT reviews. The DQC review is managed by the home District, and is performed on all work products. All LSRFWCP work products requiring only DQC review fall under the purview of this review plan, and will not require a separate product specific review plan to be submitted for approval. A detailed process description can be found in EC 1165-2-209, Appendix C.
- b. **Agency Technical Review (ATR).** An ATR is a technical review by a qualified person or team not affiliated with project or product development. Its purpose is to confirm the proper application of established criteria, regulation, laws, codes, principles and professional procedures. This level of review may still be referenced as “Independent Technical Review” in other guidance or publications. Management of ATR reviews is dependent on the phase of work, and the reviews are all conducted by professionals outside of the home district. The ATR team “lead” must be obtained from outside the originating MSC. A product-specific review plan will be submitted for approval, under separate cover, for all LSRFWCP work products determined to require an ATR. See EC 1165-2-209, Appendix C and Errata No. 2, for a detailed process description.

- c. **Independent External Peer Review (IEPR).** An IEPR is the most independent level of review, and is applied in cases where the risk and magnitude of the proposed project are such that a critical examination by a qualified team outside of the Corps is warranted. It is not anticipated that any work products within the LSRFWCP will require this level of review. However, in the event a Type II IEPR SAR level of review is required, the Walla Walla District will submit a formal review plan to NWD for approval.

5. REVIEW SELECTION

Risk-based assessment processes will be utilized to determine when an ATR or higher level of review is required in addition to the DQC review. As defined in EC 1165-2-209, all LSRFWCP products are categorized as "Other Work Products" as there are no decision documents requiring higher Headquarters' (HQ's) approval and the program is not implementing any actions as a result of HQ approved decision documents. Therefore, "DQC Only" is an acceptable review for products where the risk is determined not to rise to the threshold that would require an ATR.

However, it is possible a Post-Authorization Change Request (PACR) could be required for this project because of potential conflict with the Water Resources Development Act (WRDA) of 1986, as amended, Section 902. Section 902 limits project authorization to a 20-percent increase in project cost, plus increases allowed because of inflation and legal requirements. If the 902 calculations indicate a PACR is required, an ATR will be necessary.

- a. **Risk-Based Decisions.** Review approaches will be scalable and customized for each effort, commensurate with the level of complexity and relative importance of the actions being supported. All decisions on the types and scopes of review required on a particular product will be "risk-informed," per EC 1165-2-209. Local procedures have been developed to address the risk-informed decision process and preparation of review plans [NWW QMS 5502, Civil Works Review Process (Review Plans)]. These processes will be employed to determine the level of review required, and will be documented within the QMP for each specific work product.

6. REVIEW PLAN APPROVAL AND REVISIONS

The NWD Commander is responsible for approving this review plan. Staff at NWD will review this plan and, if the plan is deemed complete and appropriate for the risk and complexity of this project, the NWD will recommend approval by the Commander. The NWD approval memorandum will be sent to the project manager responsible for this plan. The NWD approval memorandum will be documented with the review plan, and the approval date should be noted on the cover sheet of this document.

Approved revisions will be recorded in the table below.

REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number	Date Approved
Original			
Revision 1			

7. REVIEW PLAN POINTS OF CONTACT

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

- Richard Turner, 509.527.7625, LSRFWCP Manager, Walla Walla District
- Xxx xxx, yyy.yyy.yyyy, zzz zzz, Northwestern Division

ATTACHMENT 1: TEAM ROSTER TEMPLATE

PROJECT DELIVERY TEAM ROSTER

<u>Discipline</u>	<u>Name</u>	<u>Organization</u>
PM/Plan Form/General Eng	Richard Turner	Plan Form
Attorney	[REDACTED]	OC
Geotech Eng	[REDACTED]	Geotech
Limnology	[REDACTED]	H&H
Water Quality	[REDACTED]	H&H
Economics	[REDACTED]	Planning
GIS	[REDACTED]	General Engineering
Fisheries	[REDACTED]	Operations
Environmental Compliance	[REDACTED]	Planning
Wildlife Biology	[REDACTED]	Planning
Cultural Resources	[REDACTED]	Planning

DQC TEAM ROSTER

<u>Discipline</u>	<u>Name</u>	<u>Organization</u>

ATR TEAM ROSTER

<u>Discipline</u>	<u>Name</u>	<u>Organization</u>

ATTACHMENT 2: ACRONYMS AND ABBREVIATIONS

Term	Definition
ATR	Agency Technical Review
Corps	US Army Corps of Engineers
DQC	District Quality Control
EC	Engineer Circular
ER	Engineer Regulation
IEPR	Independent External Peer Review
LSRFWCP	Lower Snake River Fish and Wildlife Compensation Plan
NWD	Northwestern Division
PDT	Product Delivery Team
PL	Public Law
QAP	Quality Assurance Plan
QCP	Quality Control Plan
RMC	Risk Management Center
RMO	Review Management Organization
SAR	Safety Assurance Review
USFWS	US Fish and Wildlife Service
WDFW	Washington Department of Fish and Wildlife
WRDA	Water Resources Development Act