
Childs-Irving Hydroelectric Project

Closeout Report – Reach 16 Stehr Lake Outlet to Childs Power Plant



Closeout Report – Reach 17

Childs/Irving Hydroelectric Project Facilities Decommissioning

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INTRODUCTION

APS received approval from the Federal Energy Regulating Commission (“FERC”) to begin decommissioning activities at the Childs-Irving Hydroelectric Facilities on March 24, 2005. APS and its construction crews at the Child-Irving project have since proceeded forward with de-construction activities and are making significant progress towards its goal of removal and restoration according to the Decommissioning Work Plan (APS document CI-ENG-1 and the proceeding Settlement Agreements for the decommissioning.

This document provides a summary of the work completed and restoration activities in Reach 16 of the project. Reach 16 contains the facilities from the Stehr Lake Outlet to the Childs Power Plant.

If you have any questions regarding this report, contact Mike Stewart at 602-250-1310, Phil Smithers at 602-493-4202 or the Childs-Irving website at <http://www.aps.com/aps/CI/Default.html> .

CHILDS IRVING SITE PLAN

1.0 Site Location and Access

The Childs Irving Project is an operating hydroelectric facility located on Fossil Creek in Central Arizona. It consists of two developments: Childs and Irving. The project is located entirely on land of the United States, managed by the United States Forest Service (“USFS”) and is part of the Coconino and Tonto National Forests.

Childs and Irving hydroelectric power plants are located approximately 110 miles north of Phoenix, Arizona. Environmentally sensitive areas surround each one. The only access to the facility is to use winding and gravel roads. One of the roads is approximately 22 miles long and enters off of the State Highway 260, which is six miles east of Camp Verde. The other access road is approximately 15 miles long and enters off of State Highway 87 at Strawberry, Arizona.

Closeout Report

2.0 Construction Activities

2.1 Tunnel No. 7

The East Portal of Tunnel No. 7 at the Stehr Lake outlet has been closed to prevent access through closure of existing mechanical equipment. The tunnel entrance will be permanently sealed at the time that Stehr Lake re-grading is complete. The West Portal has been welded shut and buried in place.



2.2 Reinforced Concrete Pressure Pipe

The reinforced concrete pressure pipe remains. A portion was removed and relocated to the Childs Power Plant site. Access to the ends of this pipe have been filled and buried.



2.3 Stand Pipe (Surge Tank)

The surge tank has been removed to approximately 3'-0" above ground. Internal access to the reinforced concrete pipe and penstock have been filled and sealed and covered with material.



The access road for deconstruction has been ripped and re-seeded

2.4 Penstock

The penstock remains in place. The head of the penstock has been sealed at the surge tank.

3.0 Monitoring and Mitigation

3.1 Noxious Weed Control and Eradication

APS completed tasks related to the containment and eradication of noxious weeds as outlined in CI-ENG-10 Noxious Weed Control Plan. No additional noxious weed treatments are required.

The 2005 / 2006 Noxious Weed Report for the Childs-Irving Hydroelectric Project was submitted to FERC and the USFS on September 7, 2006. This report includes a summary of noxious weed eradication activities at the Childs site.

3.2 Asbestos and Lead Based Paint

No asbestos or lead based paint were encountered in this reach.

3.3 Waste Management

All concrete materials were taken to the Stehr Lake basin for disposal.

3.4 Sediment and Erosion Control

Sediment and Erosion Control has been installed as required in the field.

3.5 Revegetation

Access road to surge tank has been re-seeded with native seed mix.

3.6 Agave Protection

No Agave plants were impacted in this area.

3.7 Archeological Monitoring

The site was cleared by USFS archeologists prior to deconstruction.

3.8 Historical Mitigation

Retention of historic elements and facilities in the Power Plant area has been completed according to the Historic Properties Management Plan (HPMP) for the project.

A portion of the surge tank remains for interpretation. The original reinforced concrete pipe and Childs penstock remains exposed in many areas.

A portion of the reinforced concrete pressure pipe was removed and relocated to the Child Power Plant site.

4.0 Facility Walk Down and Punch list

4.1 Facility walk down

A walk down of completed deconstruction work Reach 16 was conducted on January 8, 2007. In attendance were APS project team members and USFS land staff. A summary of this walk down can be found in Attachment 1 to this document.

4.2 Punch list items

No punch list items were developed.

USFS requested that APS re-seed the access road to the surge tank and west portal area as soon as possible. This seeding has been completed.

Attachment 1 – Facility Walk Down and Punch list

Childs-Irving Project Reach Punch list

Reach: 16 – Stehr Lake Outlet to Childs Power Plant (Station 254+45.5 to 363+62.2)

Reach Description:

Pressure Tunnel No. 7

The pressure tunnel (Approx. 4888') will remain with the upstream end sealed at Stehr Lake location. The 24" drain valve shall be removed and steel pipe sealed at the outlet end of the pressure tunnel utilizing "Typical Deconstruction Techniques".

Reinforced Concrete Pressure Pipe

The reinforced concrete pressure pipe shall remain in place.

The concrete pipe shall be sealed utilizing "Typical Deconstruction Techniques" at the north end. Pressure pipe shall be sealed at surge tank.

Upgrade Road Access

Temporary road access to the surge tank will be required for equipment access and material removal. Road access for this site will utilize existing construction access at the west side of the tank. A material and staging area will be developed at this area to provide noxious weed wash down and control areas. This road access will be constructed utilizing "Typical Deconstruction Techniques" and BMP's.

Stand Pipe (Surge Tank)

The standpipe will be demolished to approximately 3 feet above the base using equipment mounted concrete breakers and hand held equipment where possible. Concrete surge tank material shall be disposed of in the remaining penstock pipe and the Stehr Lake disposal site. Steel access ladders, rebar and miscellaneous steel shall be removed to a landfill.

Penstock

The Childs Power Plant penstock shall remain in place. Penstock will be sealed at each end using "Typical Deconstruction Techniques".

Items to be completed / Comments:

Attendees:

Judy Adams	USFS
Mike Stewart	APS
Phil Smithers	APS
Jake Randall	APS

Comments

Reach 16 was walked from the Surge Tank to the west portal of tunnel 7.

Area is acceptable to the USFS. Seeding for impacted areas needs to be completed while soils are still loose.

It was agreed that the east portal of tunnel 7 (Stehr Lake Outlet) will be included in the closeout of Reach 15. It is currently closed to access and will be permanently closed later.

Completed by: Phil Smithers, Project Manager

Date: January 8, 2007