
Childs-Irving Hydroelectric Project

Closeout Report – Reach 17 Childs Power Plant Site



Childs Power Plant Site – Infrastructure Removed

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 17 of the project. Reach 17 contains the general area surrounding 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 Project facilities - removed

All structures have been demolished and removed from the Childs site including 6 employee houses, 5 garages and one office / commissary building.

Some slabs and foundations remain at grade level. Two capped wells remain in Place. The two septic tanks and drops to the tanks remain in place. Electric lines and poles have been left in place to accommodate future use by the USFS. The existing FS road through the site will remain.

Security fencing has been added to the area around the powerhouse and Icehouse (interpretive area). APS has taken additional measures to secure the site such as increased fencing at the powerhouse and the welding shut of the door.

The Childs Substation has been expanded to include remote controls and control house. The road through the power plant has been relocated around the expanded substation.

A general site cleanup has been performed. All miscellaneous materials, buildings, sheds, etc. have been removed.

The substation structural steel has been removed from behind the power house.

All transformers and unused substation equipment has been removed.



Childs – Area to be Revegetated



Childs Historical Site



Childs – Housing Removed

2.2 Project facilities – to remain in place

The Childs Power House will remain and has been secured. All equipment relating to the Childs Power House remains inside the building.

The office building or former Ice House will remain and has been secured.

The “Load Tank House” will remain and has been secured.

A historic transmission tower remains on site.

The power house area has been re-fenced and gated for security. All maintenance buildings have been removed to grade. Some historic equipment remains on these slabs for historical interpretation if the USFS desires.

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

A survey for Asbestos and lead based paint was conducted for the entire site prior to starting deconstruction. Documentation regarding the removal of asbestos and lead based paint can be found in Appendix B, HAZMAT (Asbestos) As Left Documentation and HAZMAT (Lead) As Left Documentation.

Materials that provided positive samples for asbestos remain in the following areas:

- Plant (Powerhouse) roof penetration tar
- Ice House (E-5) floor tile mastic
- Ice House (E-5) roof penetration tar
- Ice House (E-5) roofing felts
- Plant (Generator 1) panel wiring
- Plant (Generator 2) panel wiring
- Plant panel wiring

Materials that provided positive samples for lead remain in the following areas:

- Plant exterior / interior paint
- Plant phone booth exterior / interior paint
- Battery Room exterior / interior paint
- Ice House (E-5) exterior / interior paint

3.3 Waste Management

All materials were removed from site and take to waste disposal facility.

3.4 Sediment and Erosion Control

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

3.5 Revegetation

Approximately 5 acres have been seeded at the Childs site according to USFS requests.

3.6 Agave Protection

No Agave plants were impacted in this area.

3.7 Archeological Monitoring

The Childs 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.

APS will work closely with the USFS in the future to assist in developing the Childs historical site into an interpretive site. APS will continue with its plans to move the historic "mail Station" from the Irving site to this interpretive area and reconstruct a section of steel flume on wood trestle at this site.

4.0 Facility Walk Down and Punch list

4.1 Facility walk down

A walk down of completed deconstruction work at the Childs Power Plant was conducted on February 27, 2006. In attendance were APS project team members and USFS personnel.

A summary of this walkdown is in Appendix A of this document.

An additional walkdown was conducted on October 2, 2006 to review all completed punch list items. In attendance for this walkdown was APS project team staff and USFS Land Staff. The USFS concurred that we had completed all punch list items. It was requested by the USFS that we add a steel mesh door on the remaining "Load Tank House". This has been completed.

4.2 Punch list items

A complete listing of punch list items can be found in Appendix A of this document.

All punch list items have been completed.

Appendix A - Punch list Documentation

Reach 17 - Childs Power Plant Site Walkdown / Punchlist

Walk Down Date: February 27, 2006

Attendees: Phil Smithers, APS
John Mitchell, APS
Mike Stewart, APS
Elmer Alston, APS
Judy Adams, USFS
Terry Adams, USFS
Jack Normon, USFS
Shannon Clark, USFS
Tina Williams, USFS

Brief Walk down Description:

The plant site was walked down in two distinct areas, the upper plant housing area and the lower powerhouse area.

Upper Plant Housing Area:

All structures have been removed to grade in this area. Some slabs and foundation remain at grade level. Two capped wells remain in Place. The two septic tanks and drops to the tanks remain in place. Electric lines and poles have been left in place to accommodate future use by the USFS. The existing FS road through the site will remain.

The upper plant housing area was generally walked down from West to East. General discussion related to revegetation, noxious weeds, storm water flow and the location of existing facilities left in place for future use by the USFS.

Lower Power House Area:

The power house area has been re-fenced and gated for security. All maintenance buildings have been removed to grade. Some historic equipment remains on these slabs for historical interpretation if the USFS desires. APS will remove as needed. The powerhouse, Ice house, transmission tower and Load tank house remain.

The lower power house area had a general walk down and site discussion relating to equipment that remains, security and safety.

A brief discussion based on historical interpretation and plant operations occurred. The opportunity for an oral history of plant operations was discussed by the USFS. APS proposed an additional meeting be schedule to further discuss historical commitments and future interpretation of the site.

Punch List Items to be completed prior to USFS site acceptance:

For APS response:

1. Revegetate all disturbed areas including secondary roads
 - a. Disc and Seed
 - b. Chain Drag
 - c. No scheduled watering required
2. In West area laydown, in addition to revegetation, add 3 water bars (low dirt berm) perpendicular to natural area flow for storm flow control.
3. Cut, break or hammer straw wattle stakes so that they are closer to top of straw wattles
4. Cover Southwest septic tank with rock and dirt to hide access. Document on asbuilt drawing the location of the tank and drop to tank
5. Continue treatment of Tree of Heaven as noxious weed.
6. Treat Nightshade as noxious weed. Not listed in addendum to Noxious weed Control Plan.
7. Remove power poles and line North of main road (3 poles)
8. Add cut off ditch below housing location on North side of road and aligned with the office slab to cut off sheet flow across road and eliminate channel across road. Connect straw wattles at flow on south side of property.
9. Cut off Fire protection pipe on East side of substation.
10. Add wire mesh over door at Ice house to prevent access.
11. Add heavy duty deadbolt to ice house door
12. Remove all electrical conduit and boxes from rear of ice house
13. Fill Fire water valve hole with dirt to cover at west end of power house
14. Weld trench plates together at west side of power house to prevent access to trench and wiring.
15. When relocated – Flume and Mailhouse are to be placed close to ground as safety precaution.

16. Add additional barbed wire on Childs Powerhouse fencing (south side) to reach roof awning.

17. Provide Asbestos and Lead paint documentation to USFS.

18. Provide Asbuilt drawing of plant site to USFS

For USFS response:

1. Load tank house status and securing.

- a. Do we leave in place?
- b. Do doors remain on or off?

2. Does the USFS want the historic equipment currently located on slabs to remain?

Appendix B - Asbestos and Lead Based Paint "As Left Documentation"

Appendix C – As built Site Plan