



MCWRA Briefing Report: Repair of the Nacimiento Hydroelectric Plant

May 1, 2013

Subject: Repair of the Nacimiento Hydroelectric Plant Contract Agreement No. 989005

Current Status:

The project's disassembly phase has been completed and all of damaged parts and components are undergoing further testing, evaluation, and repair. Notable components currently requiring repair and/or replacement include the following; turbine runner, wicket gates, wear rings, stator windings, stator leads, turbine/generator shaft, and associated shaft bearings (severity of damage varies and is dependent upon each component). It has also been noted throughout the disassembly phase that there are a number of smaller parts and components that have simply exceeded their service life and will need to be replaced.

History:

The Nacimiento Hydroelectric Plant (NHP) is owned and operated by the Monterey County Water Resources Agency and is located approximately nine miles southwest of the town of Bradley, CA along the downstream toe of the Nacimiento Dam. NHP was commissioned in 1987 and is still operated today using most of the plant's original hydropower generating equipment and control systems.

The hydroelectric plant's primary hydropower turbine/generator (Unit No.1) was recently damaged back in Sept. of 2013 due to a foreign object passing through its associated penstock, scroll-case, and turbine runner.

A preliminary investigation was conducted and it was determined that Unit No.1 would require extensive disassembly in order to determine the extent of the associated damage. A service agreement was developed and later awarded to Site Constructors, Inc. in January of 2013 to complete the necessary disassembly, testing, evaluation, and repair work to repair the damage unit and bring it back into commercial operation.

This facility has an insurance policy covering accidental damages and financial losses associated with a business interruption as a result of an accidental damage event. The insurance carrier was notified immediately of the associated accidental damages and staff continues to engage and update the insurance adjuster with project progress. Partial claim submittals have and will continue to be submitted to the insurance adjuster on a periodic base throughout the duration of the repair project.

Next Steps:

- Continue and complete associated testing, evaluation, and repair of all damaged parts and components.
- Repair / replace damaged parts and components.
- Reassembly of new / rebuild parts and components.
- Start-up, service testing and commissioning of repaired Unit No.1

Decision Points:

- None at this time

Completion will require:

- Reassembly of associated replacement/repared parts and components
- Service Testing / Commissioning of repaired unit