

April 26, 2010

To whom it may concern:

We hereby authorize QuakeWrap, Inc. to enter the emergency repair they performed on our mile long penstock for consideration for the 2010 International Concrete Repair Institute Outstanding Repair Project Award.


During initial pressurized flow tests our newly constructed 7 foot diameter penstock, located at the "El Encanto" Hydroelectric Power Plant in Costa Rica, exhibited extensive leaking along its entire length. The leaks occurred through longitudinal and transverse cracks, which could not be sealed properly by conventional leak repair methods. As a result, significant volume of water was lost, which could have delayed the completion of the hydroelectric power plant project if the penstock was not quickly repaired. We contacted QuakeWrap to provide us with an alternative method to seal the existing cracks.

After visiting the site, QuakeWrap engineers designed the Fiber Reinforced Polymer (FRP) structural liner system to repair the penstock. Some of the outstanding features of the emergency repair project include:

1. FRP installation on steep slopes and tight vertical and horizontal curves.
2. FRP design and installation had to be completed on a very tight schedule to avoid delays in the completion of hydroelectric power project.
3. QuakeWrap provided an innovative multi-purpose FRP liner design that not only targeted the leak problems, but also provided additional structural strengthening to account for steel reinforcement area loss due to future corrosion damage, as well as an efficient crack control system, which increased the life cycle of the penstock.
4. All installation labor was provided locally and was trained and supervised by QuakeWrap field technicians.
5. A high quality installation was obtained and the project was successfully completed one week ahead of schedule.

If you have any questions in regards to this project, please contact me and I will be happy to answer them.

Sincerely,


Ing. Walter Retana
Project Manager
Ghella, Costa Rica

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