

# Client Project Submission Form

Civil Engineering Design Course ENGI - 8700

Memorial University

Faculty of Engineering and Applied Science

St. John's NL, Canada A1B 3X5

To be submitted to Instructor: Stephen Bruneau, sbruneau@engr.mun.ca, 737-2119

## CLIENT

<b>COMPANY</b>	Newfoundland Power	address			
<b>Client Engineer</b>	Gary Humby	phone	709 737-2826	email	ghumby@newfoundlandpower.com
<b>Alternate Contact</b>	Trina Cormier	phone	709 737-5351	email	tcormier@newfoundlandpower.com

## Proposed Project Title

Penstock Replacment at Hearts Content

## Description of Project

In the near future Newfoundland Power will be replacing the exiting woodstave penstock at Hearts Content hydroelectric plant. This project will involve the demolition and disposal of the existing pentock and the installation of a new penstock.

## Requirement of Student Group

Newfoundland Power will require the Student Group to complete the detailed design for a new steel penstock (i.e. alignment for the new penstock, penstock thickness, pier & anchor block design etc.) and provide detailed design drawings along with a cost estimate to demolish the existing penstock and supply and install a steel penstock. In addition Newfoundland Power will also require the students to assess alternative replacement options to steel and provide cost estimates to supply and install these alternative options.

## COMMENTS, CONDITIONS, RESTRICTIONS QUESTIONS