

COGENERATION PLANT

CLIENT: TIMEC – Thompson River Cogen
LOCATION: Thompson Falls, Montana

Evergreen provided civil, structural, mechanical, piping, and electrical design for a 15 MW steam turbine generator. In addition to providing all the engineering for the turbine island, Evergreen was contracted by the EPC Contractor and the owner to fill in areas of engineering for the turnkey boiler and other areas of the plant.

Evergreen's design covered the following:

Civil/Structural

- Cooling tower basin
- Equipment supports & platforms

Mechanical/Piping

- Plant heat balances
- P&IDs
- Equipment selection & piping
 - Extraction steam
 - Feed water heating
 - Feed water treatment & storage
 - River water pumping & filtration system
 - Cooling water
 - Condenser
 - Air injection
 - Vacuum systems
 - Lube oil system
 - Steam, condensate & water tie-ins to the existing plant



Electrical

- Power & control of the generator
- Protection switchgear & relaying
- Step-up transformer
- 115 KV transmission line to utility tie-in
- All ancillary equipment

In addition, Evergreen provided site technical support in requisite areas.



EVERGREEN ENGINEERING

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