

ENERGY STUDY

CLIENT: Pope & Talbot (now Cascade Pacific Pulp, LLC)
LOCATION: Halsey, Oregon

The scope of this project was to provide the plant electrical engineer with an existing load survey, a coordination study, fault current study, and an updated one-line diagram for the existing plant electrical power distribution system. Field work included collecting electrical equipment and motor nameplate ratings and recording existing loads with a Dranetz Power Demand Analyzer. This data was then compiled in a computer database and used as input data for the Electrical Distribution System Analysis (EDSA) computer software. EDSA and ACAD were used to calculate load flow, fault current, and to plot coordination curves.

The complete report included the following:

- Load survey summary and recommendations
- Coordination study summary and recommendations
- Fault current analysis summary and recommendations
- Equipment rating data base
- EDSA load flow calculations
- EDSA protective device coordination curves
- EDSA fault current analysis calculations
- Detailed plant one-line diagram

Evergreen Engineering, Inc., provided the services of field collection of nameplate data, field collection of electric energy demand, field confirmation of distribution equipment configuration, compilation of data in computer database program and input data to EDSA programs, the complete above-mentioned report, coordination curves and one-line diagram.

