

Liquids Fractionation Plant Point Tupper, Nova Scotia



ACCENT Engineering Consultants Inc. was responsible for designing Sable Offshore Energy Project's 20,000 barrel-per-day Liquids Fractionation Plant in Point Tupper, NS.

Working as an integrated team with the Sable Offshore Energy Project, ACCENT was responsible for all aspects of the detailed design. The scope of the design project included the main process area, product storage and transfer facilities, rail car and tank truck loading facilities, as well as the plant's fire protection and safety alarm systems. This endeavour required regular review by and input from all disciplines of plant general arrangement drawings, process and instrumentation drawings, control logic narratives, design safety audits, and hazard reviews.

Design for all disciplines was completed through the use of PDMS (Plant Design Management System), a 3-D modelling software package. In addition to providing an interdisciplinary clash check and automated

material take-off capability, this system allowed review and "walk through" of the model by design, construction, operations, and human-factors engineering specialists as the design progressed.

The mechanical design team produced the technical design for the piperacks, process piping and equipment layouts, and input to site buildings.

The civil/structural design team provided the engineering and drafting required for site preparation and earthworks, foundations for piperacks and equipment, miscellaneous structural steel design and building specifications.

The electrical and instrumentation design teams were responsible for the specification of field instruments, electrical power systems, design of hazardous area classifications, plant cable tray systems and vendor shop drawing review.