



PLANT SYSTEMS ENGINEERING

DEHYDRATION SKID: ETHANOL PLANT

Client: Delta-T Corporation, Williamsburg, VA
Project Location: Commercial Alcohols, Ontario, Canada

Project Requirements: Working with the client developed process flow, provide equipment layout, process piping and ASME B31.3 stress analysis and structural design. Skid to be shop built, transported and erected on site.

Provide sealed structural and process piping engineering package.

Manage shop construction and pipe testing and fitting.

Project Elements:

- Two molecular sieve dehydrators
- Heat exchangers, pumps, water accumulators, automatic and manual valves, pressure and flow transmitters.
- Structure engineered to support equipment skid horizontal during fabrication, during crane pick and in final vertical position. Included five levels, 12' square x 40'.
- ASME B31.3 process piping design for ethanol.
- Shipping weights for transport across The Peace Bridge. Center of gravity for crane picks.



Dehydration Skid shop built and shipped to site.



Pipe stress analysis using CAEPIPE



Erected on site with mating stair tower (on left)

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