P10229 - Composites Autoclave Test Plan

Test: Vessel Pressurization and Leakdown

Date Tested: 4/30/2010

Primary Tester: RG&E Staff

Reference: Test C, Eng Spec 5

Test Location: RG&E Fabrication Shop

Witness: Toum

Goal: Certify that the Vessel will withstand 300psi and not leak down

Procedure:
- Door to be closed per user manual
- Vessel to be filled with water by RG&E
- Gasses allowed to settle out of water overnight
- Vessel to be pressurized to 300psi by RG&E
- Pressure in the vessel recorded by RG&E to evaluate leaks
- Pressure released and water drained
- Pressure Trace and report provided by RG&E

Results Type (check all that apply):
- [x] Pass/Fail
- [ ] Numerical
- [x] Plots

Lab Notes:
Vessel was pressurized to 319 psi. See attached plot for data trace. Variation in pressure is due to temperature changes over time.

Results:
Pass. Vessel held 319 psi without leaking a single drop of water for 4 hours.
Conclusion:

Vessel can be safely pressurized to 150 psi with a great margin of safety.
RIT Pipe Project
Mushroom Blvd.
(John LeClair)
4/30/10

Time (Minutes)