

## LOAD TESTING BEGINS

It has been a busy week for the Outbound. We worked on several areas, tail-cone, wing, horizontal tail, vertical fin. The wing testing began late Friday, and went to 3 G's with no issues. It is proving a tough wing and right in line with the FEA. The photos show the extensive set up required to wing test. There will be several conditions investigated. From there we go into control surfaces tests, then onto fuselage, tail cone, and tail group testing.





## WING WEIGHT

The test wing weighed in at 51 pounds minus struts and fuel system. A fully dressed S-7S wing comes in at 74 pounds. The completed Outbound wing with struts and fuel system should tip the scale at 85. For a gross weight of 1800, this is not a bad strength to weight. For comparison, the S-19 wing, which is inherently heavier due to being cantilever, weighs in at 101 each. Please note the S-19 was tested for a 1475 gross, and de-rated to 1320 for SLSA.

Stay tuned, more to follow next week, then look for a pause as we go to Mt. Vernon, followed by the Black Hills fly-in. RJS

