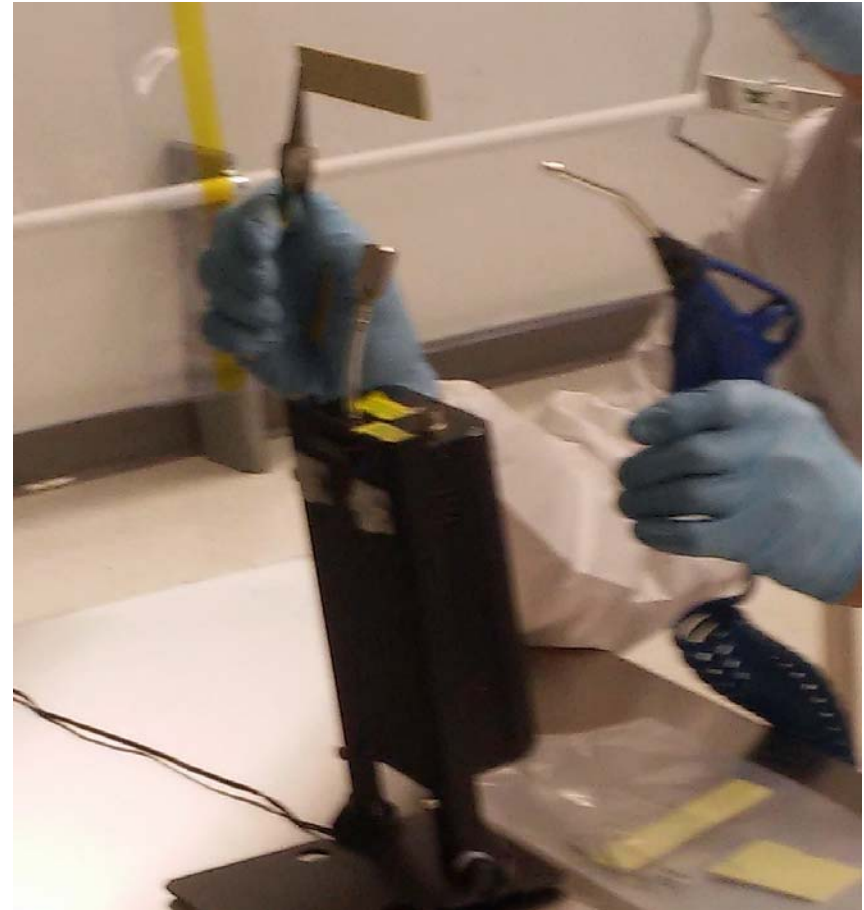


Setup for “dust test” of G-11 pieces

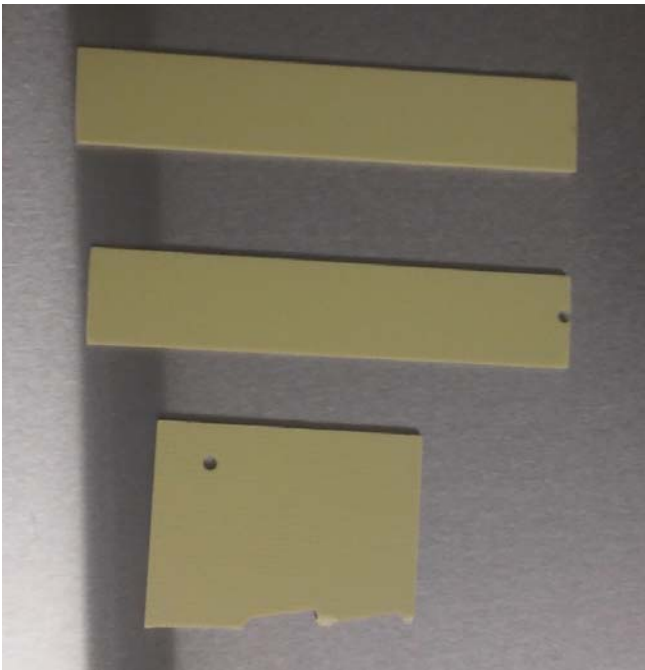


Intake fitting and tube
thoroughly cleaned before
this test.

Laser Particle counter



To keep hands away from test, a thoroughly cleaned needle nose pliers is used to hold the part above the particle counter intake. Pressurized, filtered nitrogen is directed at various surfaces of the part to dislodge any dust.



Piece 1

Piece 2

Piece 3



Piece 3 closeup up jagged spots on edge

Observations and conclusions: The first blast of air from the nitrogen gun gives ~ 2 -10 counts on the particle counter (particles larger than 0.5 micron). Once all surfaces have been blasted, no further counts are seen on successive blasts. The exception is when the nitrogen stream is directed at the two frayed spots on the edge of piece 3. Then many 10's of counts are seen. With repeated blasts, the rate slowly decreased but did not go to zero. My conclusion: The dust seen on the pieces is consistent with what would be expected from normal contamination from handling and is easily cleaned by the usual clean room methods. The exception shows that the pieces should be inspected to assure that all cut edges are smooth.