

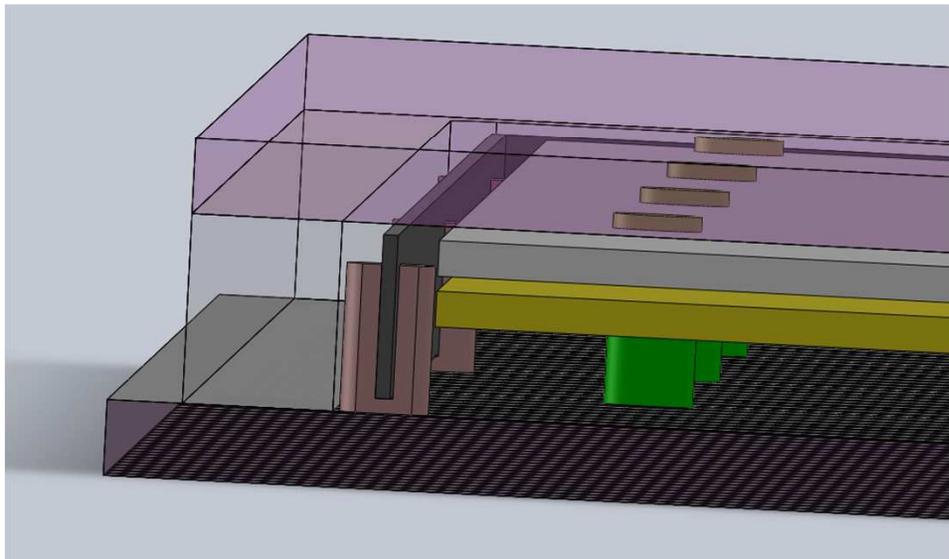
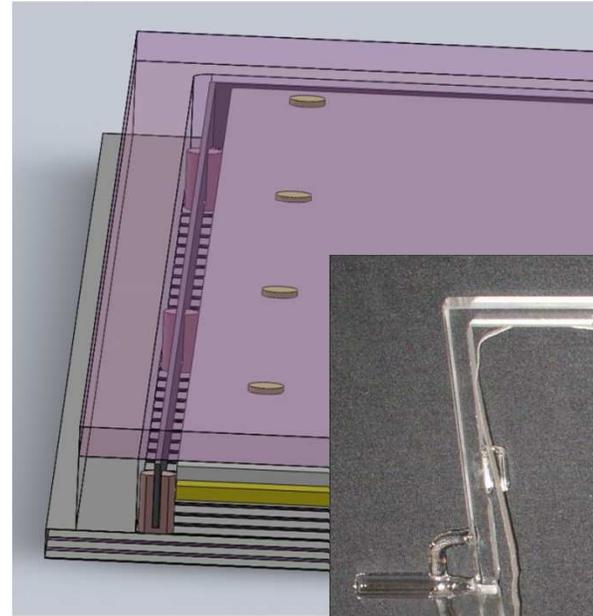
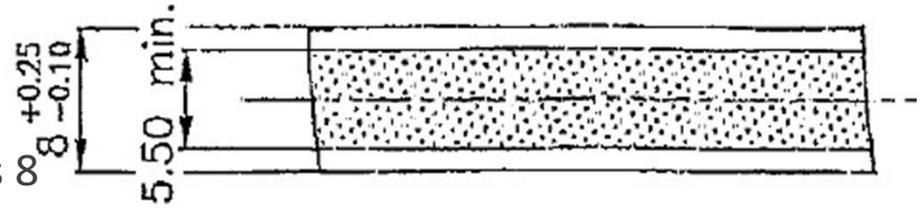
Getter Pump for the Lower Tile Assembly

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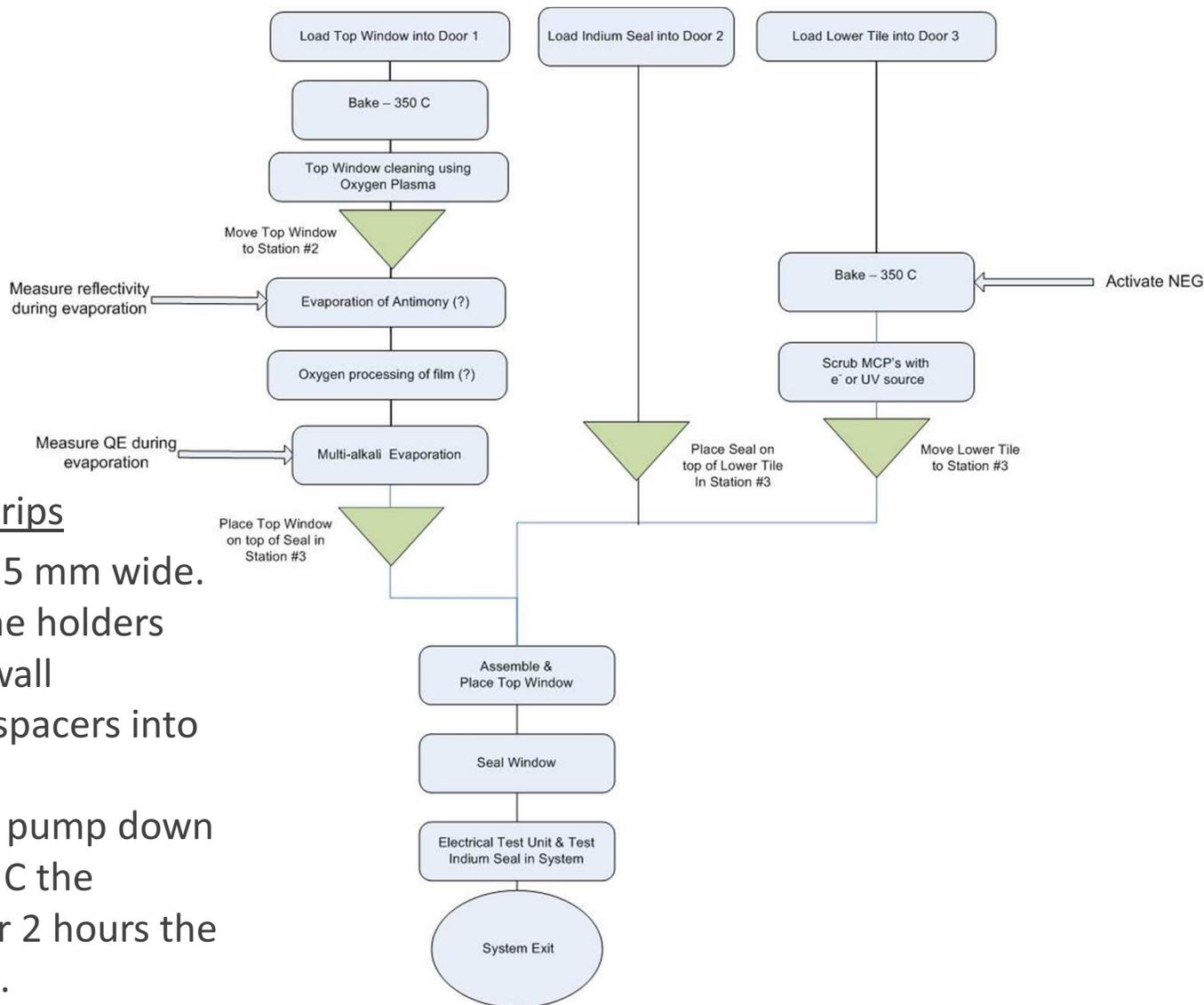
Argonne National Laboratory

Initial NEG Pump Design

- Strip from the manufacturer that is made is 8 mm wide. This can be cut down since the getter is applied to a thin metal backing.
- There is space for approximately 14 sq in's of getter area where the getter will be on all four sides.
- This area provides for 9 lit/sec of total pumping speed.



Plan



Steps for the Getter Strips

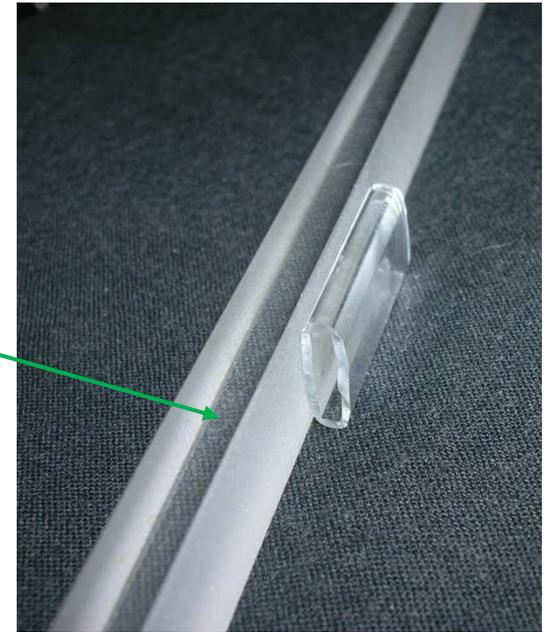
1. Cut the strip to 6 to 6.5 mm wide.
2. Install the strip into the holders mounted on the sidewall
3. Insert the MCP's and spacers into the Lower Tile
4. Place into system and pump down
5. At a temperature 350 C the activation starts, after 2 hours the getter is ready for use.



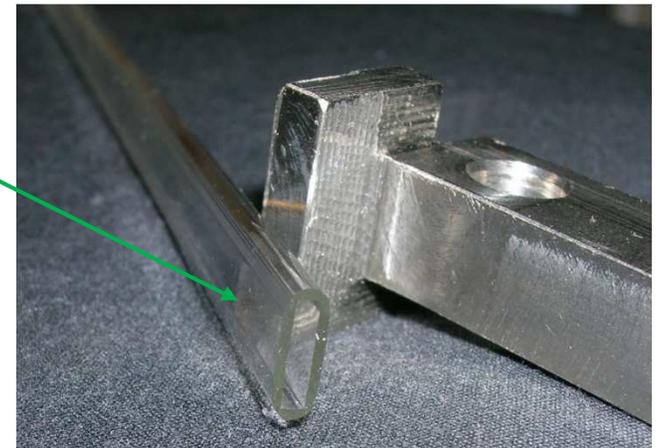
Piece parts and pumping

- The new 9 mm Sidewall is an opportunity to add more pumping by making the Getter strip wider, it adds 1 to 1.5 mm in width.
- The total area of the Getter goes from under 14 sq inches to over 16 sq inches.
- The overall speed of the getter pump can become 10.5 l/s.

9 mm Sidewall



Getter Holder
Glass Tubing
ID=.275" x .056"



Pictures of Getter Assembly

- Getter strips are installed by lacing them through the Getter Holders. The strips are flexible enough to feed them around corners and insert them into the holders.
- The ends of the strips can simply overlap over each other. The one free end can be put so that it is contained within the glass holder.

