JSA, LLC / Jefferson Lab

First Article Cathode Foil Fabrication

* All Flex processed 18 panels, shipping four sets of three (12) panels.
* The panel defects were material damage in processing equipment, personal handling damage, and resist coating defects.

2 -panels wrinkled in resist coater; new rollers have been installed in the coater and improved alignment technique established. Last eight panels processed through with no defects.

2-panels wrinkled in resist stripping conveyor; a missing spray nozzle insert causing high pressure in the center of the panel, distorting it allowing the squeegee rollers to crease and wrinkle the panels. Spray nozzle replaced.

1-panel with resist bubbles causing etched line defects. The coater heated nip rollers replaced. All Flex will continue to develop an optimal coater speed and process temperature for the thin 2 micron copper/25 micron polyimide film material.

1-panel wrinkled and creased due to operator miss handling. This defect will be an issue until All Flex has a trained set of operators on the thin Copper laminate.

All Flex expects the overall yields for the Cathode Foil Circuits to be 80-85+% after we are into the weekly production with a consistent set of operating personnel.