IPE PECVD

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Safety
- The PECVD can be run at temperatures up to 400 C and uses pyrophoric, toxic, and oxidizing gases.
- Buddy (does not need to be PECVD trained) required for after hour usage
- User is required to be in the lab during tool operation

Process Restrictions

Material Restrictions
- No general material restrictions
- Resists or other polymers need to be cured at least 25 C higher than process temperatures

Parameter Restrictions

Scheduling / Sign-up Restrictions
- No reservation of blocks greater than 3 hrs during 8 to 6PM weekday daytime hours, no time restrictions outside daytime hours.

Requirements (Do Every Time)
- A full manual clean and a plasma clean for your total deposition time + 10 minutes is required by every user.
- Spare shower head plate and chamber should be clean before you log out
- Place system in PROPER standby state (see instructions)

Prohibitions (Never Do)

Common Problems

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Root Cause:</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC 15 - system won't pump down within delay time</td>
<td>Chamber closed on lab wipe or glove, system was left at atmosphere, vacuum system problem</td>
<td>Check chamber o-ring seal area. If clear press [run] again. If problem persist or if the chamber was closed on an object notify staff</td>
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<tr>
<td>EC 31 - heater not up temp within delay time</td>
<td>Large temperature swing, heater bad</td>
<td>Press run to restart - problem persists Notify staff</td>
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</table>

Other Comments or Cautions

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