



Target Chamber Venting S-AB-P-203 REV A

Intent: This procedure is used to vent the EP Target Chamber to atmospheric pressure from the HIVAC state.

Procedure:

| 1 | Notify XOPS Group Leader of intention to vent TC. | <input type="checkbox"/> | | | | | | | | | | | | |
|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 2 | Obtain Shot Director's permission. | <input type="checkbox"/> | | | | | | | | | | | | |
| 3 | Retract and vent all TIMs <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">TIM10</th> <th style="padding: 2px;">TIM11</th> <th style="padding: 2px;">TIM12</th> <th style="padding: 2px;">TIM13</th> <th style="padding: 2px;">TIM14</th> <th style="padding: 2px;">TIM15</th> </tr> <tr> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> </table> | TIM10 | TIM11 | TIM12 | TIM13 | TIM14 | TIM15 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TIM10 | TIM11 | TIM12 | TIM13 | TIM14 | TIM15 | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| 4 | Retract and vent TPS | <input type="checkbox"/> | | | | | | | | | | | | |
| 5 | Close Sidelighter tube gate valves: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">TC-BTT</th> <th style="padding: 2px;">GCC-BTT</th> <th style="padding: 2px;">Turbo pump A</th> <th style="padding: 2px;">Turbo pump B</th> </tr> <tr> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> </table> | TC-BTT | GCC-BTT | Turbo pump A | Turbo pump B | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
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| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| 6 | Close Backlighter tube gate valves: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="padding: 2px;">TC-BTT</th> <th style="padding: 2px;">GCC-BTT</th> <th style="padding: 2px;">Turbo pump A</th> <th style="padding: 2px;">Turbo pump B</th> </tr> <tr> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> </table> | TC-BTT | GCC-BTT | Turbo pump A | Turbo pump B | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| TC-BTT | GCC-BTT | Turbo pump A | Turbo pump B | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | |
| 7 | Press "VENT" on the EP TC Vacuum GUI <ul style="list-style-type: none"> ○ All open Cryo Pump Isolation valves will close. ○ The TC pressure will increase. | <input type="checkbox"/> | | | | | | | | | | | | |
| 8 | Monitor the Cryo Pumps <ul style="list-style-type: none"> • IF any second stage temperature exceeds 25° K: <ul style="list-style-type: none"> ○ ABORT the TC vent sequence (Press "Abort" on the EP TC Vacuum GUI.) ○ Alert the XOPS Group Leader. • Otherwise proceed. | <input type="checkbox"/> | | | | | | | | | | | | |
| 9 | Continue to monitor TC pressure and cryopump temperature. (continues) | <input type="checkbox"/> | | | | | | | | | | | | |

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|-----------|--|--------------------------|
| 10 | When the TC vacuum gauge indicates $\geq 7.6 \times 10^2$, the TC is at atmospheric pressure and vent sequence is complete. | <input type="checkbox"/> |
| 11 | Notify XOPS Group Leader and SD that the TC is at atmosphere. | <input type="checkbox"/> |
| | (End) | |

Document Release:

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Approval for release of this document into the PDM system was granted by:

- S. Loucks; Director, LLE Engineering Division
- S. Morse; OMEGA EP Project Manager
- J. Edwards; OMEGA EP System Engineer
- K. Thorp; OMEGA Facility Manager
- G. Pien; Experimental Systems Group Leader
- D. Canning; Deputy Facility Manager

