

Shot Type 7: BL/SL Shot Director Checklist S-AB-P-060 Rev A

Use this checklist for backlighter and/or sidelighter target shots that terminate in the OMEGA EP Target Chamber. This checklist may not be used for long-pulse beams if they are co-fired.

Prerequisites:

- Successful Type 3 Injection Qualification Shot.
- TG/S set to Independent

Checklist:

1	Select and review the RID for this shot. Prepare the Master Template.	<input type="checkbox"/>
2	Initiate preparations by pressing the “Advance to: PRESHOT” button.	<input type="checkbox"/>
3	Make PA announcement to CR, LSB, CB&DB, LB&TB.	<input type="checkbox"/>

Establish Closed Access

Lock the Bays and direct the LST, PCT, ALT and OMEGA SD to sweep their Bays.

4	Closed Access Requirements						<input type="checkbox"/>
	Sources	CB&DB	LB&TB	VG	CR	OMEGA TB	
	Yes*	Yes	Yes	Yes	Yes	Yes	

*Note: Sources Bay is required for shots that require the 15-cm Glass Amp or 40-mm Rod Amp.

5	Assure that the Viewing Gallery is swept and locked.	<input type="checkbox"/>
6	Build the Power Conditioning Template. <ul style="list-style-type: none"> • Review the Power Conditioning template with the System Scientist. • Approve the PCE “Template Report” and click ‘PREPARE’. 	<input type="checkbox"/>

(continues)

Note: Steps 7, 8, 9, 10, and 11 may be done in any order

XOPS Type 7 Target Shot checklist

Confirm:

- Most recent version of the SRF has been reviewed and implemented.
- Any diagnostic or SRF changes.
- Type 7 Shot checklist complete
- 7 • Target Chamber pressure $< 6 \times 10^{-5}$ Torr
- Target Positioning has been approved by the PI.
- TVS shutters are closed
- TPS disconnected
- BL BTT closed/open
- SL BTT closed/open

Beamlines Type 7 Target Shot checklist

- Repeat this checklist for each beam in the shot

Confirm:

- Most recent version of the SRF has been reviewed and implemented
- Type 7 Shot checklist been complete
- 8 • Review device compare macro name and configuration for correctness. Note all exceptions.
- Required diagnostics are ready.
- Injection Throttle setting _____%
- Special setups installed/removed
- Verify beam termination for all unused beams.

Sources Propagating Shot checklist

- Repeat this checklist for each beam in the shot

Confirm:

- Most recent version of the SRF has been reviewed and implemented
- 9 • Propagating Shot checklist complete and device macros ran clean
- Pulse spectra
- SBSS Systems are Bypassed
- Preamplifiers are Disabled
- ISP-Cal's are withdrawn
- Sources injected energy setting is _____

(continues)

Closed Access (Note: Ask here if not yet confirmed)

Confirm with PCT: Cap Bay sweep been completed. Click on the CB&DB Swept button on the BUSI. Complete: <input type="checkbox"/>
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Confirm with LST: Source Bay sweep been completed. Click on the LSB Swept button on the BUSI. Complete: <input type="checkbox"/>

10 Confirm with ESO: All XOPS persons accounted for? Complete:

Confirm with ALT: Laser Bay sweep been completed. Review and initial the ALT's Bay sweep procedure. Click on the LB&TB Swept button on the BUSI. Complete: <input type="checkbox"/>
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Confirm with OMEGA SD: OMEGA Target Bay sweep completed. Click on the OMEGA Swept button on the BUSI. Complete: <input type="checkbox"/>

11 Enable Radiation Warning light

12 Lock the Control Room doors

Start of Charging

PA announcement: "Now charging for a Type 7 Target Shot for Beamline 1 and/or 2"

- Click on the "Enable Charge" button.
 - Click on the "Charge" button.
- 13
 - Time to "at volt ", in minutes and seconds, every 30 seconds.
 - "System is At_Volt"

Monitor subsystem shot activities. IF it is necessary to ABORT, press the ABORT button: IF the count is T-5 or less, ALSO **press the red dump button.**

(continues)

Monitor the shot sequence

Announce:

- 14** • "T-20 seconds" (to the shot).
• "T-10 seconds" (to the shot) and the shot countdown.

Resume Open Access

- Make PA announcement: "Shot # _____ is complete, resume normal access."
 - Unlock the Bay doors
- 15** • Turn off CR warning light
• If appropriate, DISABLE Radiation Warning light
• Inform the OMEGA SD

POSTSHOT

- 16** Proceed to S-AB-P-062 for POSTSHOT or Abort procedures.

(Done)
