

LST Shot Preparation Checklist S-AB-P-092 Rev E

Intent: Use this checklist to prepare for daily Shot operations.

Checklist: *(Completed copy to be filed with reports from first shot of the day.)*

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| 1 | <ul style="list-style-type: none"> • Review the Equipment Status Log and the Out-of-Commission list • Review the LST elog for previous issues and communications • Assure the lists are current and correct. • Resolve any items that will effect planned operations. | <input type="checkbox"/> |
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| 2 | Verify the laser safety warning lights are enabled for IR and Green. | <input type="checkbox"/> |
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Inspect the Apodizers for damage sites and record locations below:

		LS1	LS2	
	CLARA Apodizer			
	LP Apodizer			
3	LP HFAPOD			<input type="checkbox"/>
	SP HFAPOD			
		LS3	LS4	
	LP Apodizer			
	LP Beam Shaper			

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| 4 | Ensure that S11, S21, S31 and S41 are ‘safed’ with the LSO (PCT and/or SD). | <input type="checkbox"/> |
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| 5 | Enable the AFC. | <input type="checkbox"/> |
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| 6 | Inspect the optics in the 15-cm SSA and 40-mm Rod Amplifiers. Report any damage sites or coolant leaks. | <input type="checkbox"/> |
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Indicate the pulse width and/or shape and delay required for the first shot.

		SP Pulse Width	SP Pulse Delay (ns)	IFES Pulse Shape	LP Pulse Delay (ns)	HTSG Setting (ns)	
7	LS 1						<input type="checkbox"/>
	LS 2						
	LS 3	N/A					
	LS 4						

(continues)

Check spatial filter vacuums: (current below 5.0e-4 A or pressure below 40 mTorr)

	Spatial Filter	LS1	LS2	
	CLARA	<input type="checkbox"/>	<input type="checkbox"/>	
	SHG	<input type="checkbox"/>	<input type="checkbox"/>	
	Pre-amp	<input type="checkbox"/>	<input type="checkbox"/>	
	Power amp	<input type="checkbox"/>	<input type="checkbox"/>	
	OPCPA output	<input type="checkbox"/>	<input type="checkbox"/>	
	Apodizer (HFAPOD)	<input type="checkbox"/>	<input type="checkbox"/>	
8	Glass Amp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	LS Zoom	<input type="checkbox"/>	<input type="checkbox"/>	
	Periscope	<input type="checkbox"/>	<input type="checkbox"/>	
	Long Pulse	<input type="checkbox"/>	<input type="checkbox"/>	
		LS3	LS4	
	LARA	<input type="checkbox"/>	<input type="checkbox"/>	
	LARA output	<input type="checkbox"/>	<input type="checkbox"/>	
	Isolation output	<input type="checkbox"/>	<input type="checkbox"/>	
	Periscope	<input type="checkbox"/>	<input type="checkbox"/>	

9 Start the required subsystems and software per LSO orders and appropriate startup procedure. Use the Short-pulse Startup Checklist (S-AB-P-215) as required for short pulse startup.

(end of checklist)

LST: _____ SD: _____ Date: _____