

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are available by contacting the **ESSHQ Procedures Coordinator, Bldg. 911A***

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.124.j.g ATF Laser Facility Power-Up Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.124		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: _____ *Signature on File* _____
 Physics Department Chair Date

V. Castillo

ATF ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: _____ Checksum: _____

Division B Software Filename and Checksum: Title: _____ Checksum: _____

Initial testing complete:

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____ Life Number: _____

Test Team Leader's Name (Sign): _____ Date: ____/____/____

Test results reviewed by:

Safety Section Head's Name (Print): _____ Life Number: _____

Safety Section Head's Name (Sign): _____ Date: ____/____/____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print): _____ Life Number: _____

RSC Member's Name (Sign): _____ Date: ____/____/____

1.1 Test ATF Laser PLC (ALP) for Power-up conditions

SET	ATF Laser Facility to Normal state	
<input type="checkbox"/> VERIFY	ACR sees Vest 1 gate EV1G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees YR gates: YV1G1□, YLG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees GH gate GV1G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees LL gates: LV1G1□, ELG1 □, ELG2 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees C2R gates: CV2G1□, ECG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees Vest 2 gate EV2G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees FR gates: FV2G1□, FHG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees EH gates: EHG1□, EHG2 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees YR □, GH □, LL □, C2R □, FR □ and EH □	SWEEP
<input type="checkbox"/> VERIFY	ACR sees YR □, GH □, LL □, C2R □, FR □ and EH □	CRASH OK
<input type="checkbox"/> VERIFY	ACR sees YR □, GH □, LL □, C2R □, FR □ and EH □ SOR	OK
<input type="checkbox"/> VERIFY	ACR sees YR Shutter: YLS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees YR Laser Power Supply, YLPS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees C2R Shutter: CLS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees C2R Osc Power Supply, CLPS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees FR Shutter: FLS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees FR Laser Power Supply, FLPS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees EH Shutter: ELS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees EH Laser Power Supply, ELPS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees LL Shutter: LLS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees LL Laser Power Supply, LLPS	ENABLED
<input type="checkbox"/> VERIFY	ACR sees Room to Room Shutters (RRSs): LL2 to Yag (LY2S) □; LL3 to Yag (LY3S) □; Yag to LL (LY1S) □; Yag to CO2 (YCS) □; CO2 to EH (CES) □; Fel to BL3 (BL3S) □; Yag to Fel (YFS) □; CO2 to Fel (CFS) □; BL1 to Fel (BL1S) □; BL2 to Fel (BL2S) □ and Yag to Gun (YGS) □	ENABLED
TURN OFF	AC Power to the ALP	ON
<input type="checkbox"/> VERIFY	AC Power to ALP is	OFF
WAIT	30 Seconds	
TURN ON	AC Power to ALP	
<input type="checkbox"/> VERIFY	AC Power to ALP is	ON
<input type="checkbox"/> VERIFY	ACR sees Vest 1 gate EV1G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees YR gates: YV1G1□, YLG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees GH gate GV1G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees LL gates: LV1G1□, ELG1 □, ELG2 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees C2R gates: CV2G1□, ECG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees Vest 2 gate EV2G1	CLOSED
<input type="checkbox"/> VERIFY	ACR sees FR gates: FV2G1□, FHG1 □	CLOSED
<input type="checkbox"/> VERIFY	ACR sees EH gates: EHG1□, EHG2 □	CLOSED

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|--------------------------|---------------|---|-----------------|
| <input type="checkbox"/> | VERIFY | ACR sees YR <input type="checkbox"/>, GH <input type="checkbox"/>, LL <input type="checkbox"/>, C2R <input type="checkbox"/>, FR <input type="checkbox"/> and EH <input type="checkbox"/> | NO SWEEP |
| <input type="checkbox"/> | VERIFY | ACR sees YR <input type="checkbox"/>, GH <input type="checkbox"/>, LL <input type="checkbox"/>, C2R <input type="checkbox"/>, FR <input type="checkbox"/> and EH <input type="checkbox"/> | CRASH OK |
| <input type="checkbox"/> | VERIFY | ACR sees YR <input type="checkbox"/>, GH <input type="checkbox"/>, LL <input type="checkbox"/>, C2R <input type="checkbox"/>, FR <input type="checkbox"/> and EH <input type="checkbox"/> SOR | FAULT |
| <input type="checkbox"/> | VERIFY | ACR sees YR Shutter, YLS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees YR Power Supply, YLPS | ENABLED |
| <input type="checkbox"/> | VERIFY | ACR sees C2R Shutter CLS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees C2R Osc Power Supply, CLPS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees FR Shutter: FLS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees FR Laser Power Supply, FLPS | ENABLED |
| <input type="checkbox"/> | VERIFY | ACR sees EH Shutter ELS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees EH Power Supply ELPS | ENABLED |
| <input type="checkbox"/> | VERIFY | ACR sees LL Shutter: LLS | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees LL Power Supply LLPS (follows Shutter logic) | DISABLED |
| <input type="checkbox"/> | VERIFY | ACR sees Room to Room Shutters (RRSs): LY2S <input type="checkbox"/>; LY3S <input type="checkbox"/>; LY1S <input type="checkbox"/>; YCS <input type="checkbox"/>; BL3S <input type="checkbox"/>; YFS <input type="checkbox"/>; CFS <input type="checkbox"/>; BL1S <input type="checkbox"/>; BL2S <input type="checkbox"/>; CES <input type="checkbox"/> and YGS <input type="checkbox"/> | ENABLED |
- Check for acceptance of Test ATF Laser PLC (ALP) for Power-up conditions**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____