

*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.b ATF Gate 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

4.120.124.b ATF Gate Tests

PASS 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 CONDUCT Visual check on ATF doors following Table-1, below

Door	Micro Switch		Verify Elec Wiring OK	Verify Door Box OK	Verify Open/Close Fctns OK	Verify all x's Corr.	Inspn OK Init.
	Verify Align OK	Verify Openn OK					
A	<input type="checkbox"/>	<input type="checkbox"/>					
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	
C-Left (C-L)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	
C-Right (C-R)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	
Plug Door (PD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	<input type="checkbox"/>	

Legend: Tick = O.K. x = Problem N/A = Not Applicable

Table 1: Summary of Physical Inspection of ATF Doors

- Check for acceptance of Visual check on ATF doors

1.2 Test MSs 1 & 2 of Door A to the Experiment Hall (EH)

- VERIFY** Door has been inspected
- VERIFY** Door B is **CLOSED**
- VERIFY** Door C is **CLOSED**
- OPEN** Door A with **Keypad** (2306E)
- HOLD** Door A micro switch: **MS-1** **MADE**
- VERIFY** **Door Open Indicator (DOI)** on ATF Status Box (ASB), Encl **5810** near Exp Hall is **OFF**
- VERIFY** **DOI** at Radiation Interlock Panel (**RIP**), Encl **5811**, at ATF Control Room (**ACR**) is **OFF**
- RELEASE** Door A micro switch: **MS-1**
- VERIFY** **DOI** at encl **5810** and encl **5811** are **ON**
- HOLD** Door A **OPEN**
- Capture** **Right BLLO key** at encl **5809**
- VERIFY** **Right BLLO key** is **CAPTURED**
- VERIFY** Emergency Stop Indicator (**ESI**) at encl **5810** and encl **5811** are **OFF**
- CLOSE** **RIB Test (RIBT) switch** at ATF Radiation Security Logic Box (**ARSLB**) encl **5809** with **RIBT key**
- VERIFY** **RIBT** switch is **CLOSED**
- VERIFY** Radiation Interlock B Latch (**RIBL**) indicator at encl **5810** is **OFF**
- HOLD** Door A micro switch: **MS2** **MADE**
- VERIFY** **RIBL** indicator at encl **5809** is **ON**
- RELEASE** Door A micro switch: **MS-2**
- VERIFY** **RIBL** indicator at encl **5809** is **OFF**
- CLOSE** Door A

- Check for acceptance of Test MSs 1 & 2 of Door A to the Experiment Hall (EH)

1.3 Test MSs 1 & 2 of Door B to the Experiment Hall (EH)

- VERIFY** Door has been inspected
- VERIFY** Door A is **CLOSED**
- VERIFY** Door C is **CLOSED**
- OPEN** Door B
- HOLD** Door B micro switch: MS-1 **MADE**
- VERIFY** DOI on ASB, Encl 5810 near Exp Hall is **OFF**
- VERIFY** DOI on RIP, Encl 5811, at ACR is **OFF**
- RELEASE** Door B micro switch: MS-1
- VERIFY** DOI at encl 5810 and encl 5811 are **ON**
- HOLD** Door B OPEN
- VERIFY** Right BLLO key is **CAPTURED**
- VERIFY** ESI at encl 5810 and encl 5811 are **OFF**
- VERIFY** RIBT switch is **CLOSED**
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- HOLD** Door B micro switch: MS2 **MADE**
- VERIFY** RIBL indicator at encl 5809 is **ON**
- RELEASE** Door B micro switch: MS-2
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- CLOSE** Door B
- Check for acceptance of Test MSs 1 & 2 of Door B to the Experiment Hall (EH)**

1.4 Test MSs 1 & 2 of C-Left (C-L), Double Doors outside of EH.

- VERIFY** Door has been inspected
- VERIFY** Door A is **CLOSED**
- VERIFY** Door B is **CLOSED**
- OPEN** Door C with ATF Key # 15
- HOLD** Door C-L micro switch: MS-1 **MADE**
- VERIFY** DOI on AsB, Encl 5810 near Exp Hall is **OFF**
- VERIFY** DOI on RIP, Encl 5811, at ACR is **OFF**
- RELEASE** Door C-L micro switch: MS-1
- VERIFY** DOI at encl 5810 and encl 5811 are **ON**
- HOLD** Door C-L OPEN
- VERIFY** Right BLLO key is **CAPTURED**
- VERIFY** ESI at encl 5810 and encl 5811 are **OFF**
- VERIFY** RIBT switch is **CLOSED**
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- HOLD** Door C-L micro switch: MS2 **MADE**
- VERIFY** RIBL indicator at encl 5809 is **ON**
- RELEASE** Door C-L micro switch: MS-2
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- CLOSE** Door C-L
- Check for acceptance of Test MSs 1 & 2 of Door C-L outside of EH**

1.5 Test MSs 1 & 2 of C-Left (C-R), Double Doors outside of EH.

- VERIFY** Door has been inspected
- VERIFY** Door A is **CLOSED**
- VERIFY** Door B is **CLOSED**
- OPEN** Door C with ATF Key # 15
- HOLD** Door C-R micro switch: MS-1 **MADE**
- VERIFY** DOI on ASB, Encl 5810 near Exp Hall is **OFF**
- VERIFY** DOI on RIP, Encl 5811, at ACR is **OFF**
- RELEASE** Door C-R micro switch: MS-1
- VERIFY** DOI at encl 5810 and encl 5811 are **ON**
- HOLD** Door C-R **OPEN**
- VERIFY** Right BLLO key is **CAPTURED**
- VERIFY** ESI at encl 5810 and encl 5811 are **OFF**
- VERIFY** RIBT switch is **CLOSED**
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- HOLD** Door C-R micro switch: MS2 **MADE**
- VERIFY** RIBL indicator at encl 5809 is **ON**
- RELEASE** Door C-R micro switch: MS-2
- VERIFY** RIBL indicator at encl 5809 is **OFF**
- CLOSE** Door C-R

- Check for acceptance of Test MSs 1 & 2 of Door C-R outside of EH**

1.6 Test of Plug door MSs A and B

- VERIFY** Plug Door (PD) has been inspected
- OPEN** PD
- CLOSE** MS A, on the right
- VERIFY** At PD, Door Secure (DS) –A indicator is **ON**
- VERIFY** At Mezzanine Interlock Box (MIB) , encl 5812, Radiation Interlock A (RIA) is **ON**
- VERIFY** At MIB, encl 5812, Experimental Hall Interlock A (EHIA) is **ON**
- VERIFY** At MIB, encl 5812, Radiation Interlock A #1 (RIA#1) is **ON**
- RELEASE** MS A
- VERIFY** At MIB, encl 5812: RIA , EHIA and RIA#1 **OFF**
- CLOSE** MS B, on the left
- VERIFY** At PD, Door Secure (DS) –B indicator is **ON**
- VERIFY** At MIB , encl 5812, Radiation Interlock B (RIB) is **ON**
- VERIFY** At MIB, encl 5812, Experimental Hall Interlock B (EHIB) is **ON**
- VERIFY** At MIB, encl 5812, Radiation Interlock A #1 (RIB#2) is **ON**
- RELEASE** MS B
- VERIFY** At MIB, encl 5812: RIB , EHIB and RIB#2 **OFF**
- LEAVE** PD **OPEN**
- Check for acceptance of Test of Plug door MSs A and B**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____