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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.54.b U-Down & V-Primary (PEER 25) Gate Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.54		

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* _____
 Collider-Accelerator Department Chairman Date

V. Castillo

4.120.54.b U-Down & V-Primary (PEER 25) Gate Tests

PASS SEMI-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 **Peer 25** gates following Table-1, below

Gate	Micro Switch		Elec Wiring	Gate Box	Lights	Gate Functions			Verify all x's Corr.	Inspn O.K. Init.
	Align	Opern				Open	Self-Closing	Latch		
UGE2									<input type="checkbox"/>	
UGE3									<input type="checkbox"/>	
UED1									<input type="checkbox"/>	
UGI1									<input type="checkbox"/>	
VPGE1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/>	

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

Table 1: Summary of Physical Inspection of Peer 25 Gates

1.2 Test of Entry Gate at UGE2

- VERIFY STATION PLACE** **Entry Gate at UGE2** has been inspected
One Personnel **inside** gate
- VERIFY PEER 25** is in **Controlled Access** **MODE 16**
- VERIFY OPEN** The **Exterior** gate box **Controlled Access** light is **ON**
Gate UGE2 with **Simultaneous Release** and **#5 CA Key**
- VERIFY** Simultaneous Release **Buzzer** **SOUNDS**
- VERIFY** Gate UGE2 is **OPEN**
- VERIFY** MCR sees the gate is **OPEN**
- HOLD** The Electric Strike micro switch **MADE**
- HOLD** Both of the gate micro switches **MADE**
- VERIFY** MCR sees the gate is **CLOSED**
- RELEASE** Div A micro switch
- VERIFY** MCR indicates **Div A** **OPEN**
- HOLD** Both of the gate micro switches **MADE**
- VERIFY** MCR sees the gate is **CLOSED**
- RELEASE** Div B micro switch
- VERIFY** MCR indicates **Div B** **OPEN**
- HOLD** Both of the gate micro switches **MADE**
- VERIFY** MCR sees the gate is **CLOSED**
- RELEASE** The Electric Strike micro switch
- VERIFY** MCR sees **Div A** of the gate is **OPEN**
- CLOSE** The gate
- VERIFY** MCR sees the gate is **CLOSED**
- ATTEMPT** Remote **reset** from **MCR** (keytrees must be captured)
- VERIFY** MCR sees Div A and Div B **RESET**
- OPEN** Gate from **inside**
- VERIFY** MCR sees Div A and Div B **OPEN**
- CLOSE** The gate

- | | | | |
|--------------------------|---------------|---|---------------|
| | PLACE | PEER 25 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Restricted Access light is | ON |
| | OPEN | Gate UGE2 from gate box with the Zero key | |
| <input type="checkbox"/> | VERIFY | Gate UGE2 is | OPEN |
| | OPEN | Gate UGE2 with the #5 RC CA key | |
| <input type="checkbox"/> | VERIFY | Gate UGE2 is | OPEN |
| | CLOSE | The gate | |
| | | | |
| | PLACE | PEER 25 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate UGE2 with Simultaneous Release and Zero key | |
| <input type="checkbox"/> | VERIFY | Attempt to open gate UGE2 with Simultaneous Release and Zero key | FAIL |
| | OPEN | Gate UGE2 with Simultaneous Release and #5 CA Key | |
| <input type="checkbox"/> | VERIFY | Gate UGE2 is | OPEN |
| | CLOSE | Gate UGE2 | |
- Check for acceptance of Test of Entry Gate at UGE2

1.3 Test of Entry Gate at UGE3

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Entry Gate at UGE3 has been inspected | |
| | STATION | One Personnel inside gate | |
| | PLACE | PEER 25 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate UGE3 with Simultaneous Release and #5 CA Key | |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate UGE3 is | OPEN |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| | HOLD | The Electric Strike micro switch | MADE |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div A | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div B | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| | ATTEMPT | Remote reset from MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Div A <input type="checkbox"/> and Div B <input type="checkbox"/> | RESET |
| | OPEN | Gate from inside | |

<input type="checkbox"/>	VERIFY CLOSE	MCR sees Div A <input type="checkbox"/> and Div B <input type="checkbox"/> The gate	OPEN
	PLACE	PEER 25 in Restricted Access (Mode 8)	
<input type="checkbox"/>	VERIFY	PEER 25 is in Restricted Access	MODE 8
<input type="checkbox"/>	VERIFY OPEN	The Exterior gate box Restricted Access light is Gate UGE3 from gate box with the Zero key	ON
<input type="checkbox"/>	VERIFY OPEN	Gate UGE3 is Gate UGE3 with the #5 RC CA key	OPEN
<input type="checkbox"/>	VERIFY CLOSE	Gate UGE3 is The gate	OPEN
	PLACE	PEER 25 in Safe Access (Mode 2)	
<input type="checkbox"/>	VERIFY	PEER 25 is in Safe Access	MODE 2
<input type="checkbox"/>	VERIFY OPEN	The Exterior gate box Controlled Access light is Gate UGE3 with Simultaneous Release and Zero key	ON
<input type="checkbox"/>	VERIFY OPEN	Attempt to open gate UGE3 with Simultaneous Release and Zero key Gate UGE3 with Simultaneous Release and #5 CA Key	FAIL
<input type="checkbox"/>	VERIFY CLOSE	Gate UGE3 is Gate UGE3	OPEN
<input type="checkbox"/>	Check for acceptance of Test of Entry Gate at UGE3		

1.4 Test of Gate at UGI1 (U-up exit to U-dn)

<input type="checkbox"/>	VERIFY	Gate at UGI1 has been inspected	
	PLACE	PEER 23 in Restricted Access (MODE 8)	
<input type="checkbox"/>	VERIFY	PEER 23 is in RA	MODE 8
	PLACE	PEER 25 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 25 is in CA	MODE 16
<input type="checkbox"/>	VERIFY	The gate box CA light is	ON
	PLACE	PEER 25 in Restricted Access (MODE 8)	
<input type="checkbox"/>	VERIFY	PEER 25 is in RA	MODE 8
<input type="checkbox"/>	VERIFY	Attempt to open Gate UGI1 with Zero key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	MCR sees the gate is	OPEN
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY RELEASE	MCR sees the gate is Div A micro switch	CLOSED
<input type="checkbox"/>	VERIFY HOLD	MCR indicates Div A Both of the gate micro switches	OPEN MADE
<input type="checkbox"/>	VERIFY RELEASE	MCR sees the gate is Div B micro switch	CLOSED
<input type="checkbox"/>	VERIFY HOLD	MCR indicates Div B Both of the gate micro switches	OPEN MADE
<input type="checkbox"/>	VERIFY CLOSE	MCR sees the gate is The gate	CLOSED
<input type="checkbox"/>	VERIFY	MCR sees the gate is	CLOSED
<input type="checkbox"/>	VERIFY	The U-down Gate Reset light is	OFF
	PLACE	PEER 23 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	MCR sees PEER 23 is in CA (U-up keytree broken)	MODE 16

- | | | | |
|--------------------------|---------------|--|---------------|
| <input type="checkbox"/> | RESET | The gate with #7 Sweep key at U-down gate box | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The U-down gate box Gate Reset light is | ON |
| <input type="checkbox"/> | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| <input type="checkbox"/> | VERIFY | The U-down Gate Reset light is | OFF |
| <input type="checkbox"/> | CLOSE | The gate | |
| | | | |
| <input type="checkbox"/> | PLACE | PEER 25 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The U-up gate box Controlled Access light is | ON |
| | | | |
| <input type="checkbox"/> | PLACE | PEER 25 in Restricted Access (MODE 8) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in RA | MODE 8 |
| <input type="checkbox"/> | VERIFY | MCR sees Gate UG11 is | CLOSED |
- Check for acceptance of Test of Gate at UG11 (U-up exit to U-dn)

1.5 Test of Gate at UED1 (U-dn exit to W)

- | | | | |
|--------------------------|----------------|--|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | The door cannot be opened from the Outside | |
| <input type="checkbox"/> | PLACE | PEER 25 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| <input type="checkbox"/> | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | RELEASE | Div A door micro switch | |
| | | | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div A | OPEN |
| <input type="checkbox"/> | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div B | OPEN |
| <input type="checkbox"/> | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The UED1 Door Reset light is | OFF |
| <input type="checkbox"/> | RESET | The Door with #4 Sweep key at UED1 gate box | |
| <input type="checkbox"/> | VERIFY | MCR sees the UED1 door is | RESET |
| <input type="checkbox"/> | VERIFY | The UED1 Door Reset light is | ON |
| <input type="checkbox"/> | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The UED1 gate box Gate Reset light is | OFF |
| <input type="checkbox"/> | CLOSE | The gate | |
- Check for acceptance of Test of Gate at UED1 (U-dn exit to W)

1.6 Test of Entry Gate at VPGE1 [Omit This Test Until Further Notice]

- | | | | |
|--------------------------|---|---|----------------|
| <input type="checkbox"/> | VERIFY STATION PLACE | Entry Gate at VPGE1 has been inspected
One Personnel inside gate
PEER 25 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY OPEN | The Exterior gate box Controlled Access light is
Gate VPGE1 with Simultaneous Release and #5 CA Key | ON |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate VPGE1 is | OPEN |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| <input type="checkbox"/> | HOLD | The Electric Strike micro switch | MADE |
| <input type="checkbox"/> | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| <input type="checkbox"/> | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div A | OPEN |
| <input type="checkbox"/> | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| <input type="checkbox"/> | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div B | OPEN |
| <input type="checkbox"/> | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| <input type="checkbox"/> | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| <input type="checkbox"/> | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| <input type="checkbox"/> | ATTEMPT | Remote reset from MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees Div A <input type="checkbox"/> and Div B <input type="checkbox"/> | RESET |
| <input type="checkbox"/> | OPEN | Gate from inside | |
| <input type="checkbox"/> | VERIFY | MCR sees Div A <input type="checkbox"/> and Div B <input type="checkbox"/> | OPEN |
| <input type="checkbox"/> | CLOSE | The gate | |
| <input type="checkbox"/> | PLACE | PEER 25 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Restricted Access light is | ON |
| <input type="checkbox"/> | OPEN | Gate VPGE1 from gate box with the Zero key | |
| <input type="checkbox"/> | VERIFY | Gate VPGE1 is | OPEN |
| <input type="checkbox"/> | CLOSE | The gate | |
| <input type="checkbox"/> | OPEN | Gate VPGE1 with the #5 RC CA key | |
| <input type="checkbox"/> | VERIFY | Gate VPGE1 is | OPEN |
| <input type="checkbox"/> | PLACE | PEER 25 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 25 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| <input type="checkbox"/> | OPEN | Gate VPGE1 with Simultaneous Release and Zero key | |
| <input type="checkbox"/> | VERIFY | Attempt to open gate VPGE1 with Simultaneous Release and Zero key | FAIL |
| <input type="checkbox"/> | OPEN | Gate VPGE1 with Simultaneous Release and #5 CA Key | |
| <input type="checkbox"/> | VERIFY | Gate VPGE1 is | OPEN |
| <input type="checkbox"/> | CLOSE | Gate VPGE1 | |
| <input type="checkbox"/> | Check for acceptance of Test of Entry Gate at VPGE1 [Omitted Until Further Notice] | | |

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing:

Date: ____/____/____

TTL: Sign for completion of final testing:

Date: ____/____/____