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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.8.b 8 O’Clock (PEER 17) Gate Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.8		

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

4.120.8.b 8 O’Clock (PEER 17) 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 Peer 17 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		
7GS1I									<input type="checkbox"/>	
7GS1O									<input type="checkbox"/>	
7EL1									<input type="checkbox"/>	
7GE1									<input type="checkbox"/>	
7MD1									<input type="checkbox"/>	
8GE1*									<input type="checkbox"/>	
8GE2									<input type="checkbox"/>	
8MD1									<input type="checkbox"/>	
8EL1									<input type="checkbox"/>	
8ED1*									<input type="checkbox"/>	
8ED2									<input type="checkbox"/>	
9GS1									<input type="checkbox"/>	

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

* These 2 gates are available for testing only when the PHENIX Plug Door is open.

Table 1: Summary of Physical Inspection of Peer 17 Gates

1.2 Test INNER GATE at 7GS1

- VERIFY** Gate has been inspected
- PLACE** **PEER 7** in **Restricted Access (Mode 8)**
- VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 17** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 17** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights and LED message: **Stop Call MCR for Access X-7400 Stop** on both sides of the gate are **ON**
- OPEN** The gate
- VERIFY** Operator Interface sees the gate is **OPEN**
- HOLD** Both of the PEER 17 gate micro switches **MADE**
- VERIFY** Operator Interface sees the gate is **CLOSED**
- RELEASE** Div A PEER 17 micro switch
- VERIFY** Operator Interface indicates **Div A** **OPEN**
- HOLD** Both of the PEER 17 gate micro switches **MADE**
- VERIFY** Operator Interface sees the gate is **CLOSED**
- RELEASE** Div B PEER 17 micro switch
- VERIFY** Operator Interface indicates **Div B** **OPEN**
- CLOSE** The gate
- VERIFY** Operator Interface sees the gate is **CLOSED**

- | | | | |
|--------------------------|-------------------------|--|----------------|
| <input type="checkbox"/> | VERIFY
RESET | The 7Z1 gate box Gate Reset light is
The gate with #15 RC Sweep key at 7Z1 inner gate
box | OFF |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY
OPEN | The 7Z1 gate box Gate Reset light is
The gate | ON |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | VERIFY
CLOSE | The 7Z1 gate box Gate Reset light is
The gate | OFF |
| <input type="checkbox"/> | RESET | Gate from MCR | |
| <input type="checkbox"/> | VERIFY
OPEN | Operator Interface sees the gate is
The gate | RESET |
| <input type="checkbox"/> | VERIFY
CLOSE | Operator Interface sees gate is
The gate | OPEN |
| <input type="checkbox"/> | VERIFY | Operator Interface sees gate is | CLOSED |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Controlled Access (MODE 17)
PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call
MCR for Access X-7400 Stop on both sides of the
gate are | ON |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Restricted Access (Mode 8)
PEER 17 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message on both sides
of the gate: Access Permitted is | ON |
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Safe Access (Mode 2)
PEER 17 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call
MCR for Access X-7400 Stop on both sides of the
gate are | ON |
| <input type="checkbox"/> | CHECK | for test acceptance of INNER GATE at 7GS1 | |

1.3 Test OUTER GATE at 7GS1

- | | | | |
|--------------------------|---------------------------|---|------------------------|
| <input type="checkbox"/> | PLACE
VERIFY | PEER 17 in Controlled Access (MODE 16)
PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER | ON |
| <input type="checkbox"/> | OPEN
VERIFY | The gate
Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | HOLD
VERIFY | Both of the PEER 17 gate micro switches
Operator Interface sees the gate is | MADE
CLOSED |
| <input type="checkbox"/> | RELEASE
VERIFY | Div A PEER 17 micro switch
Operator Interface indicates Div A | OPEN |
| <input type="checkbox"/> | HOLD
VERIFY | Both of the PEER 17 gate micro switches
Operator Interface sees the gate is | MADE
CLOSED |
| <input type="checkbox"/> | RELEASE
VERIFY | Div B PEER 17 micro switch
Operator Interface indicates Div B | OPEN |

- | | | |
|---------------|-------------------------------------|---------------|
| CLOSE | The gate | |
| VERIFY | Operator Interface sees the gate is | CLOSED |

- CHECK** for test acceptance of **OUTER GATE** at **7GS1**

1.4 Test ESCAPE DOOR at 7EL1

- | | | |
|---------------|-------------------------|--|
| VERIFY | Gate has been inspected | |
|---------------|-------------------------|--|
- | | | |
|---------------|--------------------------------|----------------|
| VERIFY | The door cannot be opened from | OUTSIDE |
|---------------|--------------------------------|----------------|
- | | | |
|--------------|--|--|
| PLACE | PEER 17 in Controlled Access (MODE 16) | |
|--------------|--|--|
- | | | |
|---------------|---|----------------|
| VERIFY | PEER 17 is in Controlled Access | MODE 16 |
|---------------|---|----------------|
- | | | |
|-------------|----------|--|
| OPEN | The door | |
|-------------|----------|--|
- | | | |
|---------------|-------------------------------------|-------------|
| VERIFY | Operator Interface sees the door is | OPEN |
|---------------|-------------------------------------|-------------|
- | | | |
|---------------|-------------------------------|-------------|
| SECURE | The Security Bar micro switch | MADE |
|---------------|-------------------------------|-------------|
- | | | |
|-------------|---------------------------------|-------------|
| HOLD | Both of the door micro switches | MADE |
|-------------|---------------------------------|-------------|
- | | | |
|---------------|-------------------------------------|---------------|
| VERIFY | Operator Interface sees the gate is | CLOSED |
|---------------|-------------------------------------|---------------|
- | | | |
|----------------|-------------------------|--|
| RELEASE | Div A door micro switch | |
|----------------|-------------------------|--|
- | | | |
|---------------|---|-------------|
| VERIFY | Operator Interface indicates Div A | OPEN |
|---------------|---|-------------|
- | | | |
|-------------|---------------------------------|-------------|
| HOLD | Both of the door micro switches | MADE |
|-------------|---------------------------------|-------------|
- | | | |
|---------------|-------------------------------------|---------------|
| VERIFY | Operator Interface sees the gate is | CLOSED |
|---------------|-------------------------------------|---------------|
- | | | |
|----------------|-------------------------|--|
| RELEASE | Div B door micro switch | |
|----------------|-------------------------|--|
- | | | |
|---------------|---|-------------|
| VERIFY | Operator Interface indicates Div B | OPEN |
|---------------|---|-------------|
- | | | |
|-------------|---------------------------------|-------------|
| HOLD | Both of the door micro switches | MADE |
|-------------|---------------------------------|-------------|
- | | | |
|---------------|-------------------------------------|---------------|
| VERIFY | Operator Interface sees the door is | CLOSED |
|---------------|-------------------------------------|---------------|
- | | | |
|----------------|-------------------------------|--|
| RELEASE | The Security Bar micro switch | |
|----------------|-------------------------------|--|
- | | | |
|---------------|-------------------------------------|-------------|
| VERIFY | Operator Interface sees the door is | OPEN |
|---------------|-------------------------------------|-------------|
- | | | |
|--------------|-------------------------------------|--|
| CLOSE | The door and latch the Security Bar | |
|--------------|-------------------------------------|--|
- | | | |
|---------------|-------------------------------------|------------|
| VERIFY | The 7EL1 Door Reset light is | OFF |
|---------------|-------------------------------------|------------|
- | | | |
|--------------|---|--|
| RESET | The Door with #15 RC Sweep key at 7EL1 gate box | |
|--------------|---|--|
- | | | |
|---------------|---|--------------|
| VERIFY | Operator Interface sees the 7EL1 door is | RESET |
|---------------|---|--------------|
- | | | |
|---------------|-------------------------------------|-----------|
| VERIFY | The 7EL1 Door Reset light is | ON |
|---------------|-------------------------------------|-----------|
- | | | |
|-------------|----------|--|
| OPEN | The door | |
|-------------|----------|--|
- | | | |
|---------------|-------------------------------------|-------------|
| VERIFY | Operator Interface sees the door is | OPEN |
|---------------|-------------------------------------|-------------|
- | | | |
|---------------|--|------------|
| VERIFY | The 7EL1 gate box Gate Reset light is | OFF |
|---------------|--|------------|
- | | | |
|--------------|----------|--|
| CLOSE | The door | |
|--------------|----------|--|
- | | | |
|---------------|-------------------------------------|---------------|
| VERIFY | Operator Interface sees the door is | CLOSED |
|---------------|-------------------------------------|---------------|
- | | | |
|---------------|--|------------|
| VERIFY | The 7EL1 gate box Gate Reset light is | OFF |
|---------------|--|------------|

- CHECK** for test acceptance of **ESCAPE DOOR** at **7EL1**

1.5 Test of ENTRY GATE at 7GE1

- | | | |
|---------------|---|--|
| VERIFY | INNER Gate at 7GE1 has been inspected | |
|---------------|---|--|

- | | | |
|--------------|--|--|
| PLACE | PEER 17 in Controlled Access (MODE 16) | |
|--------------|--|--|
- | | | |
|---------------|---|----------------|
| VERIFY | PEER 17 is in Controlled Access | MODE 16 |
|---------------|---|----------------|
- | | | |
|---------------|---|-----------|
| VERIFY | The warning light on the inside of the gate indicates: | |
| | CALL MCR FOR EXIT AMBER | ON |
- | | | |
|---------------|--|-----------|
| VERIFY | The Exterior gate box Controlled Access light is | ON |
|---------------|--|-----------|
- | | | |
|-------------|---|--|
| OPEN | Gate 7GE1 with Simultaneous Release and #14 CA | |
|-------------|---|--|

	Key	
<input type="checkbox"/>	VERIFY	Simultaneous Release Buzzer
<input type="checkbox"/>	VERIFY	Gate 7GE1 is
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	SECURE	The Electric Strike micro switch
	HOLD	Both of the gate micro switches
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	RELEASE	Div A micro switch
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A
	HOLD	Both of the gate micro switches
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	RELEASE	Div B micro switch
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B
	HOLD	Both of the gate micro switches
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	RELEASE	The Electric Strike micro switch
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	CLOSE	The gate
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	RESET	Gate from MCR
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is
	OPEN	The gate
<input type="checkbox"/>	VERIFY	Operator Interface sees gate is
	CLOSE	The gate
<input type="checkbox"/>	VERIFY	Operator Interface sees gate is
	PLACE	PEER 17 in Controlled Access (MODE 17)
<input type="checkbox"/>	VERIFY	PEER 17 is in Controlled Access
<input type="checkbox"/>	VERIFY	The 7Z1 gate box Controlled Access light is
<input type="checkbox"/>	VERIFY	The warning light on the inside of the gate indicate:
	CALL MCR FOR EXIT	AMBER
	OPEN	Gate 7GE1 from gate box with the S key and Simultaneous Release
<input type="checkbox"/>	VERIFY	Attempt to open Gate 7GE1 is
	OPEN	Gate 7GE1 with the #14 RC CA key and Simultaneous Release
<input type="checkbox"/>	VERIFY	Gate 7GE1 is
	CLOSE	Gate 7GE1
	PLACE	PEER 17 in Restricted Access (Mode 8)
<input type="checkbox"/>	VERIFY	PEER 17 is in Restricted Access
<input type="checkbox"/>	VERIFY	The Exterior gate box Restricted Access light is
<input type="checkbox"/>	VERIFY	The warning lights on both sides of the gate indicate:
	CALL MCR FOR EXIT	AMBER
<input type="checkbox"/>	VERIFY	Attempt to open gate 7GE1 with S key is
<input type="checkbox"/>	VERIFY	Attempt to open Gate 7GE1 with #14 RC CA key is
<input type="checkbox"/>	VERIFY	Attempt to open 7GE1 with Blue card
<input type="checkbox"/>	VERIFY	Attempt to open 7GE1 with Expt. _____ card
<input type="checkbox"/>	VERIFY	During attempt with Expt. Card Reader light is
	PLACE	PEER 17 in Safe Access (Mode 2)
<input type="checkbox"/>	VERIFY	PEER 17 is in Safe Access
<input type="checkbox"/>	VERIFY	The Exterior gate box Controlled Access light is
<input type="checkbox"/>	VERIFY	The warning light on inside of the gate indicates:

- | | | | | |
|--------------------------|---------------|---|--------------|-------------|
| | | CALL MCR FOR EXIT | AMBER | ON |
| | OPEN | Gate 7GE1 with Simultaneous Release and S Key | | |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 7GE1 with Simultaneous Release and S Key | | FAIL |
| | OPEN | Gate 7GE1 with Simultaneous Release and #14 CA Key | | |
| <input type="checkbox"/> | VERIFY | Gate 7GE1 is | | OPEN |
| | CLOSE | Gate 7GE1 | | |
| <input type="checkbox"/> | CHECK | for test acceptance of ENTRY GATE at 7GE1 | | |

1.6 Test of MAGNET TRANSPORT GATE, 7MD1, Left and Right Sides

- | | | | | |
|--------------------------|----------------|---|--|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | | MODE 16 |
| | OPEN | Only Left side of gate 7MD1 (Keep Right side Closed) | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | OPEN |
| | HOLD | Both Left side gate micro switches | | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| | RELEASE | Div A micro switch | | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | | OPEN |
| | HOLD | Both Left side gate micro switches | | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| | RELEASE | Div B micro switch | | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | | OPEN |
| | CLOSE | Left side of gate, 7MD1 | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| | OPEN | Only Right side of gate 7MD1 (Keep Left side Closed) | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | OPEN |
| | HOLD | Both Right side gate micro switches | | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| | RELEASE | Div A micro switch | | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | | OPEN |
| | HOLD | Both Right side gate micro switches | | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| | RELEASE | Div B micro switch | | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | | OPEN |
| | CLOSE | Right side of gate, 7MD1 | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | | OFF |
| | RESET | The gate with #15 RC Sweep key | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | | ON |
| | OPEN | The gate | | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | | OPEN |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | | OFF |
| | CLOSE | The gate | | |
| <input type="checkbox"/> | CHECK | for test acceptance of MAGNET TRANSPORT GATE, 7MD1, Left and Right Sides | | |

1.7 Test of ENTRY GATE at 8GE2

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | INNER Gate at 8GE2 has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights on the inside of the gate indicate:
CALL MCR FOR EXIT AMBER | ON |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate 8GE2 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate 8GE2 is | OPEN |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | SECURE | The Electric Strike micro switch | MADE |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RESET | Gate from MCR | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees gate is | CLOSED |
| | PLACE | PEER 17 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The 8Z1 gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicate:
CALL MCR FOR EXIT AMBER | ON |
| | OPEN | Gate 8GE2 from gate box with the S key and Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 8GE2 is | FAIL |
| | OPEN | Gate 8GE2 with the #14 RC CA key and Simultaneous Release | |
| <input type="checkbox"/> | VERIFY | Gate 8GE2 is | OPEN |
| | CLOSE | Gate 8GE2 | |
| | PLACE | PEER 17 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Restricted Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicate: | |

- | | | | | |
|--------------------------|---------------|---|--------------|-------------------|
| | | CALL MCR FOR EXIT | AMBER | OFF |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 7GE1 with S key is | | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 7GE1 with #14 RC CA key is | | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 7GE1 with Blue card | | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 7GE1 with Expt. _____ card | | FAIL |
| <input type="checkbox"/> | VERIFY | During attempt with Expt. Card Reader light is | | RED |
| | PLACE | PEER 17 in Safe Access (Mode 2) | | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Safe Access | | MODE 2 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | | ON |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicate: | | |
| | | CALL MCR FOR EXIT | AMBER | ON |
| | OPEN | Gate 8GE2 with Simultaneous Release and #14 CA Key | | |
| <input type="checkbox"/> | VERIFY | Gate 8GE2 is | | OPEN |
| | CLOSE | Gate 8GE2 | | |
| <input type="checkbox"/> | CHECK | for test acceptance of ENTRY GATE at 8GE2 | | |

1.8 Test of MAGNET TRANSPORT GATE, 8MD1, Left and Right Sides

- | | | | |
|--------------------------|---|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| | OPEN | Only Left side of gate 8MD1, (Keep Right side Closed) | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | HOLD | Both Left side gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both Left side gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | Left side of gate 8MD1 | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | OPEN | Only Right side of gate 8MD1, (Keep Left side Closed) | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | HOLD | Both Right side gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both Right side gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | CLOSE | Right side of gate 8MD1 | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | RESET | The gate with #15 RC Sweep key | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | ON |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | The gate box Gate Reset light is | OFF |
| | CLOSE | The gate | |
| <input type="checkbox"/> | CHECK for test acceptance of MAGNET TRANSPORT GATE, 8MD1, Left and Right Sides | | |

1.9 Test ESCAPE DOOR at 8EL1

- VERIFY** Gate has been inspected
- VERIFY** The door cannot be opened from **OUTSIDE**
- PLACE** **PEER 17** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 17** is in **Controlled Access** **MODE 16**
- OPEN** The door
- VERIFY** Operator Interface sees the door is **OPEN**
- SECURE** The Security Bar micro switch **MADE**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the gate is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** Operator Interface indicates **Div A** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the gate is **CLOSED**
- RELEASE** Div B door micro switch
- VERIFY** Operator Interface indicates **Div B** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the door is **CLOSED**
- RELEASE** The Security Bar micro switch
- VERIFY** Operator Interface sees the door is **OPEN**
- CLOSE** The door and latch the Security Bar
- VERIFY** The **8EL1** Door Reset light is **OFF**
- RESET** The Door with **#15 RC** Sweep key at **8EL1** gate box
- VERIFY** Operator Interface sees the **8EL1** door is **RESET**
- VERIFY** The **8EL1** Door Reset light is **ON**
- OPEN** The door
- VERIFY** Operator Interface sees the door is **OPEN**
- VERIFY** The **8EL1** gate box Gate Reset light is **OFF**
- CLOSE** The door

- CHECK** for test acceptance of **ESCAPE DOOR** at **8EL1**

1.10 Test of EXIT DOOR 8ED2

- VERIFY** Gate has been inspected
- VERIFY** The door cannot be opened from the **outside**
- PLACE** **PEER 17** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 17** is in **Controlled Access** **MODE 16**
- VERIFY** The warning light **inside** the gate indicates:

CALL MCR FOR EXIT	AMBER	ON
--------------------------	--------------	-----------
- OPEN** The door
- VERIFY** Operator Interface sees the door is **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the door is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** Operator Interface indicates **Div A** **OPEN**

- | | | | |
|--------------------------|----------------|---|---------------|
| <input type="checkbox"/> | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| <input type="checkbox"/> | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| <input type="checkbox"/> | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 8ED2 Door Reset light is | OFF |
| <input type="checkbox"/> | RESET | The Door with #15 RC Sweep key at 8ED2 gate box | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the 8ED2 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 8ED2 Door Reset light is | ON |
| <input type="checkbox"/> | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 8ED2 gate box Gate Reset light is | OFF |
| <input type="checkbox"/> | CLOSE | The door | |
- CHECK** for test acceptance of **ESCAPE DOOR** at **8ED2**

1.11 Test INNER GATE at 9GS1

- | | | | |
|--------------------------|---------------|--|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | PLACE | PEER 15 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 15 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning lights and LED message: Stop Call MCR for Access X-7400 on both sides of the gate are | ON |
| <input type="checkbox"/> | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
- CHECK** for test acceptance of **INNER GATE** at **9GS1**

1.12 Test OUTER GATE at 9GS1

- | | | | |
|--------------------------|---------------|---|----------------|
| <input type="checkbox"/> | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light on the 9Z1 side of the gate indicates: | ON |
| | | CALL MCR FOR CROSSOVER AMBER | |
| <input type="checkbox"/> | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| <input type="checkbox"/> | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
- CHECK** for test acceptance of **OUTER GATE** at **9GS1**

1.13 Test of ENTRY GATE at 8GE1 (Available only when the PHENIX Plug Door is open.

- | | | | |
|--------------------------|----------------|--|-------------------|
| <input type="checkbox"/> | VERIFY | ENTRY Gate at 8GE1 has been inspected | |
| | PLACE | PEER 17 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicates:
CALL MCR FOR EXIT AMBER | ON |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Controlled Access light is | ON |
| | OPEN | Gate 8GE1 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Simultaneous Release Buzzer | SOUNDS |
| <input type="checkbox"/> | VERIFY | Gate 8GE1 is | OPEN |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | SECURE | The Electric Strike micro switch | MADE |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div A micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div A | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | Div B micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface indicates Div B | OPEN |
| | HOLD | Both of the gate micro switches | MADE |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RELEASE | The Electric Strike micro switch | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | CLOSED |
| | RESET | Gate from MCR | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees the gate is | RESET |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | Operator Interface sees gate is | CLOSED |
| | PLACE | PEER 17 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The 8Z1 gate box Restricted Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning light on the inside of the gate indicate:
CALL MCR FOR EXIT AMBER | OFF |
| | OPEN | Gate 8GE1 from gate box with the S key | |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 8GE1 is | SUCCESSFUL |
| | OPEN | Gate 8GE1 with the #14 RC CA key | |
| <input type="checkbox"/> | VERIFY | Gate 8GE1 is | OPEN |
| | CLOSE | Gate 8GE1 | |
| | PLACE | PEER 17 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 17 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The Exterior gate box Restricted Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate:
CALL MCR FOR EXIT AMBER | OFF |

- VERIFY** Attempt to **open** gate **8GE1** with **S** key is **SUCCESSFUL**
- VERIFY** Attempt to **open** Gate **8GE1** with **#14 RC CA** key is **SUCCESSFUL**
- VERIFY** Attempt to open **8GE1** with **Blue card** **SUCCESSFUL**
- VERIFY** Attempt to open **8GE1** with **Phoenix Red card** is **SUCCESSFUL**
- VERIFY** Attempt to open **8GE1** with any other **FAIL**
- VERIFY** **Expt. Card: _____**
- VERIFY** **During** attempt with **Expt. Card Reader light** is **RED**

- PLACE** **PEER 17** in **Safe Access (Mode 2)**
- VERIFY** **PEER 17** is in **Safe Access** **MODE 2**
- VERIFY** The **Exterior** gate box **Controlled Access** light is **ON**
- VERIFY** The warning light on **inside** of the gate indicates:
CALL MCR FOR EXIT **AMBER** **ON**
- OPEN** Gate **8GE1** with **Simultaneous Release** and **S Key**
- VERIFY** Attempt to open gate **8GE1** with **Simultaneous Release** and **S Key** **FAIL**
- OPEN** Gate **8GE1** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Gate **8GE1** is **OPEN**
- CLOSE** Gate **8GE1**

- CHECK** for test acceptance of **ENTRY GATE** at **8GE1**

1.14 Test of Iris Scanner and Local Keytree located at PHENIX Control Room (PCR)

- PLACE** **PEER 17** in **CA, Mode 16**
- VERIFY** **PEER 17** is in **CA** **MODE 16**
- SCAN** Valid **Personnel # 1** with **Iris Scanner** at **PCR**
- VERIFY** **Valid Personnel** is **RECOGNIZED**

- VERIFY** All green key-enabled lights in **PHENIX Local** keytree at **PCR** are **ON**
- HAVE** Valid **Personnel # 1** uncapture Key # _____ from **Local Keytree** at **PCR**
- VERIFY** Corresp Key # _____ **amber** light is **ON**
- VERIFY** **Attempt** to enter **8GE1** with any **PCR** key # ____ and **SR** is **SUCCESSFUL**

- SCAN** Valid **Personnel # 2** with **Iris Scanner** at **PCR**
- VERIFY** **Valid Personnel # 2** is **RECOGNIZED**
- VERIFY** All green key-enabled lights in **PHENIX Local** keytree, except key # _____, at gate **8GE1** are **ON**

- HAVE** Valid **Personnel # 2** uncapture Key # _____ from **Local Keytree** at **PCR**
- VERIFY** Corresp Key # _____ **amber** light is **ON**
- VERIFY** **Attempt** to enter **BGE1** with **PCR** key # ____ and **SR** is **SUCCESSFUL**

- SCAN** Valid **Personnel # 2** with **Iris Scanner** at **PCR**
- VERIFY** **Valid Personnel # 2** is **RECOGNIZED**
- VERIFY** Only green key-enabled light # _____ in **Local** keytree at **PCR** is **ON**
- HAVE** Valid **Personnel # 2** capture Key # _____

- VERIFY** **from Local Keytree at PCR**
Corresp Key # _____ amber ke light is **OFF**
- SCAN** **Valid Personnel # 1 with Iris Scanner at PCR**
- VERIFY** **Valid Personnel # 1 is** **RECOGNIZED**
- VERIFY** **Only green key-enabled light # _____ in Local**
keytree at PCR is **ON**
- HAVE** **Valid Personnel # 1 capture Key # _____**
from Local Keytree at PCR
- VERIFY** **Corresp Key # _____ amber light is** **OFF**
- PLACE** **PEER 17 in Controlled Access (XA), Mode 17**
- VERIFY** **PEER 17 is in XA** **MODE 17**
- SCAN** **Valid Personnel # 3 with Iris Scanner at PCR**
- VERIFY** **Valid Personnel # 3 is** **RECOGNIZED**
- VERIFY** **All green key-enabled lights in Local keytree at**
PCR are **OFF**
- Check for acceptance of Test of Iris Scanner and Local Keytree located at**
PHENIX Control Room

1.15 Test of Bypass of Local Keytree located at PHENIX Control Room (PCR)

- PLACE** **PEER 17 in CA, Mode 16**
- VERIFY** **PEER 17 is in CA** **MODE 16**
- VERIFY** **MCR sees PHENIX local keytree Div A and Div B** **COMPLETE**
- VERIFY** **PHENIX local keytree Bypass key is in** **NOT BYPASS**
- SCAN** **Valid Personnel with Iris Scanner at PCR**
- VERIFY** **Valid Personnel is** **RECOGNIZED**
- VERIFY** **All green key-enabled lights in PHENIX Local keytree at**
PCR are **ON**
- HAVE** **Valid Personnel uncapture Key # _____ from Local**
Keytree at PCR
- VERIFY** **Corresp Key # _____ amber light is** **ON**
- VERIFY** **MCR sees PHENIX local keytree Div A and Div B** **INCOMPLETE**
- TURN** **PHENIX local keytree Bypass key to**
- VERIFY** **PHENIX local keytree Bypass key is in** **BYPASS**
BYPASS
- VERIFY** **MCR sees PHENIX local keytree Div A and Div B** **COMPLETE**
- TURN** **PHENIX local keytree Bypass key to**
- VERIFY** **PHENIX local keytree Bypass key is in** **NOT BYPASS**
NOT BYPASS
- VERIFY** **MCR sees PHENIX local keytree Div A and Div B** **INCOMPLETE**
- SCAN** **Valid Personnel with Iris Scanner at PCR**
- VERIFY** **Valid Personnel is** **RECOGNIZED**
- VERIFY** **Only green key-enabled light # _____ in Local keytree at**
PCR is **ON**

- HAVE** Valid **Personnel** capture Key # _____ from Local Keytree at **PCR**
- VERIFY** Corresp Key # _____ **amber** light is **OFF**
- VERIFY** MCR sees PHENIX local keytree Div A and Div B **COMPLETE**
- Check for acceptance of Test of Bypass of Local Keytree located at PHENIX Control Room (PCR)**

1.16 Test of EXIT DOOR 8ED1 (Available when Experiment is not in place)

- VERIFY** Gate has been inspected
- VERIFY** The door cannot be opened from the **outside** **OUTSIDE**
- PLACE PEER 17 in Controlled Access (MODE 16)**
- VERIFY** **PEER 17** is in **Controlled Access** **MODE 16**
- VERIFY** The warning light **inside** the gate indicates:

CALL MCR FOR EXIT	AMBER	ON
--------------------------	--------------	-----------
- OPEN** The door
- VERIFY** Operator Interface sees the door is **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the door is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** Operator Interface indicates **Div A** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** Operator Interface sees the door is **CLOSED**
- RELEASE** Div B door micro switch
- VERIFY** Operator Interface indicates **Div B** **OPEN**
- CLOSE** The door
- VERIFY** Operator Interface sees the door is **CLOSED**
- VERIFY** The **8ED1** Door Reset light is **OFF**
- RESET** The Door with **#15 RC Sweep key** at **8ED1** gate box
- VERIFY** Operator Interface sees the **8ED1** door is **RESET**
- VERIFY** The **8ED1** Door Reset light is **ON**
- OPEN** The door
- VERIFY** Operator Interface sees the door is **OPEN**
- VERIFY** The **8ED1** gate box Gate Reset light is **OFF**
- CLOSE** The door
- CHECK** for test acceptance of **ESCAPE DOOR** at **8ED1**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____