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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.6.b 6 O’Clock (PEER 7) Gate Tests

| C-A-OPM Procedures in which this Attachment is used. | | |
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| 4.120.6 | | |
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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

4.120.6.b 6 O'clock (PEER 7) 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 7 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 | | |
| 5GS1I | | | | | | | | | <input type="checkbox"/> | |
| 5GS1O | | | | | | | | | <input type="checkbox"/> | |
| 5EL1 | | | | | | | | | <input type="checkbox"/> | |
| 5GE1 | | | | | | | | | <input type="checkbox"/> | |
| 5ED1 | | | | | | | | | <input type="checkbox"/> | |
| 6GE1 | | | | | | | | | <input type="checkbox"/> | |
| 6GE2 | | | | | | | | | <input type="checkbox"/> | |
| 6MD1 | | | | | | | | | <input type="checkbox"/> | |
| 6ED1 | | | | | | | | | <input type="checkbox"/> | |
| 6GE3 | | | | | | | | | <input type="checkbox"/> | |
| 6EL1 | | | | | | | | | <input type="checkbox"/> | |
| 6ED2 | | | | | | | | | <input type="checkbox"/> | |
| 7GS1I | | | | | | | | | <input type="checkbox"/> | |
| 7GS1O | | | | | | | | | <input type="checkbox"/> | |
| YGI1 | | | | | | | | | <input type="checkbox"/> | |
| YGI2 | | | | | | | | | <input type="checkbox"/> | |
| XGI1 | | | | | | | | | <input type="checkbox"/> | |
| XGI2 | | | | | | | | | <input type="checkbox"/> | |

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

Table 1: Summary of Physical Inspection of Peer 7 Gates

- 1.2 Test INNER GATE at 5GS1:
- VERIFY** Gate has been inspected
 - PLACE PEER 9** in **Restricted Access (Mode 8)**
 - VERIFY PEER 9** is in **Restricted Access** **MODE 8**
 - PLACE PEER 7** in **Controlled Access (MODE 16)**
 - VERIFY PEER 7** 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** **MCR** sees the gate is **OPEN**
 - HOLD** Both of the PEER 7 gate micro switches **MADE**
 - VERIFY** **MCR** sees the gate is **CLOSED**
 - RELEASE** Div A PEER 7 micro switch
 - VERIFY** **MCR** indicates **Div A** **OPEN**
 - HOLD** Both of the PEER 7 gate micro switches **MADE**
 - VERIFY** **MCR** sees the gate is **CLOSED**

- | | | |
|--|---|---------------|
| RELEASE | Div B PEER 7 micro switch | |
| VERIFY | MCR indicates Div B | OPEN |
| CLOSE | The gate | |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | CLOSED |
| <input type="checkbox"/> VERIFY | The 5Z1 gate box Gate Reset light is | OFF |
| RESET | The gate with #15 RC Sweep key at 5Z1 inner gate box | |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | RESET |
| <input type="checkbox"/> VERIFY | The 5Z1 gate box Gate Reset light is | ON |
| OPEN | The gate | |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | OPEN |
| <input type="checkbox"/> VERIFY | The 5Z1 gate box Gate Reset light is | OFF |
| CLOSE | The gate | |

- | | | |
|--|---|----------------|
| PLACE | PEER 7 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> VERIFY | PEER 7 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 |

- | | | |
|--|---|---------------|
| PLACE | PEER 7 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> VERIFY | PEER 7 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> VERIFY | The LED message: Access Permitted is | ON |

- | | | |
|--|---|---------------|
| PLACE | PEER 7 in Safe Access (Mode 2) | |
| <input type="checkbox"/> VERIFY | PEER 7 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 |

- CHECK** for test acceptance of **INNER GATE** at **5GS1**

1.3 Test OUTER GATE at 5GS1:

- | | | |
|--|--|----------------|
| PLACE | PEER 7 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> VERIFY | PEER 7 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 |
| OPEN | The gate | |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | OPEN |
| HOLD | Both of the PEER 7 gate micro switches | MADE |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | CLOSED |
| RELEASE | Div A PEER 7 micro switch | |
| <input type="checkbox"/> VERIFY | MCR indicates Div A | OPEN |
| HOLD | Both of the PEER 7 gate micro switches | MADE |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | CLOSED |
| RELEASE | Div B PEER 7 micro switch | |
| <input type="checkbox"/> VERIFY | MCR indicates Div B | OPEN |
| CLOSE | The gate | |
| <input type="checkbox"/> VERIFY | MCR sees the gate is | CLOSED |

- CHECK** for test acceptance of **OUTER GATE** at **5GS1**

1.4 Test ESCAPE DOOR at 5EL1:

- VERIFY** Door has been inspected
- VERIFY** The door **cannot** be opened from **OUTSIDE**
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** The door
- VERIFY** MCR sees the door is **OPEN**
- SECURE** The Security Bar micro switch **MADE**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** MCR sees the gate is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** MCR indicates **Div A** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** MCR sees the gate is **CLOSED**
- RELEASE** Div B door micro switch
- VERIFY** MCR indicates **Div B** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** MCR sees the door is **CLOSED**
- RELEASE** The Security Bar micro switch
- VERIFY** MCR sees the door is **OPEN**
- CLOSE** The door and latch the Security Bar
- VERIFY** The **5EL1** Door Reset light is **OFF**
- RESET** The Door with **#15 RC Sweep key** at **5EL1** gate box
- VERIFY** MCR sees the **5EL1** door is **RESET**
- VERIFY** The **5EL1** Door Reset light is **ON**
- OPEN** The door
- VERIFY** MCR sees the door is **OPEN**
- VERIFY** The **5EL1** gate box Gate Reset light is **OFF**
- CLOSE** The door
- VERIFY** MCR sees the door is **CLOSED**
- VERIFY** The **5EL1** gate box Gate Reset light is **OFF**
- CHECK** for test acceptance of **ESCAPE DOOR** at **5EL1**

1.5 Test of ENTRY GATE at 5GE1

- VERIFY** **INNER** Gate at **5GE1** has been inspected
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER **AMBER** **ON**
- VERIFY** The Exterior gate box **Controlled Access** light is **ON**
- OPEN** Gate **5GE1** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Simultaneous Release **Buzzer** **SOUNDS**
- VERIFY** Gate **5GE1** is **OPEN**
- VERIFY** MCR sees the gate is **OPEN**
- SECURE** 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 |
| | RESET | The gate from MCR | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | RESET |
| | OPEN | The gate | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | OPEN |
| | CLOSE | The gate | |
| <input type="checkbox"/> | VERIFY | MCR sees the gate is | CLOSED |
| | PLACE | PEER 7 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in XA | MODE 17 |
| <input type="checkbox"/> | VERIFY | The gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate: CALL MCR FOR CROSSOVER AMBER | ON |
| | OPEN | Gate 5GE1 with the #14 RC CA key and Simul. Rel. | |
| <input type="checkbox"/> | VERIFY | Gate 5GE1 is | OPEN |
| | CLOSE | Gate 5GE1 | |
| | PLACE | PEER 7 in Restricted Access (Mode 8) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The gate box Restricted Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate: CALL MCR FOR CROSSOVER AMBER | OFF |
| <input type="checkbox"/> | VERIFY | Attempt to open gate 5GE1 with S key is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open Gate 5GE1 with #14 RC CA key is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 5GE1 with Blue card | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | Attempt to open 5GE1 with Expt. _____ card | FAIL |
| <input type="checkbox"/> | VERIFY | During attempt with Expt. Card Reader light is | RED |
| | PLACE | PEER 7 in Safe Access (Mode 2) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The gate box Controlled Access light is | ON |
| <input type="checkbox"/> | VERIFY | The warning lights on both sides of the gate indicate: CALL MCR FOR CROSSOVER AMBER | ON |
| | OPEN | Gate 5GE1 with Simultaneous Release and #14 CA Key | |
| <input type="checkbox"/> | VERIFY | Gate 5GE1 is | OPEN |
| | CLOSE | Gate 5GE1 | |
| <input type="checkbox"/> | CHECK | for test acceptance of ENTRY GATE at 5GE1 | |

1.6 Test of EXIT DOOR 5ED1

- | | | | |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | The door cannot be opened from the 6 O'clock area | |
| <input type="checkbox"/> | VERIFY | PEER 9 is in Restricted Access | MODE 8 |
| | PLACE | PEER 7 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| | RELEASE | Div A door micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div A | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates Div B | OPEN |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 5ED1 Door Reset light is | OFF |
| | RESET | The Door with #15 RC Sweep key at 5ED1 gate box | |
| <input type="checkbox"/> | VERIFY | MCR sees the 5ED1 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 5ED1 Door Reset light is | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 5ED1 gate box Gate Reset light is | OFF |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 5ED1 gate box Gate Reset light is | OFF |
| | PLACE | PEER 7 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| | PLACE | PEER 7 in Restricted Access (MODE 8) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | OFF |
| | PLACE | PEER 7 in Safe Access (MODE 2) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| <input type="checkbox"/> | CHECK | for test acceptance of ESCAPE DOOR at 5ED1 | |

1.7 Test of ENTRY GATE at 6GE1

- VERIFY** **INNER** Gate at **6GE1** has been inspected
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **ON**
- VERIFY** The Exterior gate box **Controlled Access** light is **ON**
- OPEN** Gate **6GE1** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** **Simultaneous Release Buzzer** **SOUNDS**
- VERIFY** Gate **6GE1** is **OPEN**
- VERIFY** **MCR** sees the gate is **OPEN**
- SECURE** 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 the gate is **OPEN**
- CLOSE** The gate **CLOSED**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RESET** The gate from **MCR**
- VERIFY** **MCR** sees the gate is **RESET**
- OPEN** The gate
- VERIFY** **MCR** sees the gate is **OPEN**
- CLOSE** The gate **CLOSED**
- VERIFY** **MCR** sees the gate is **CLOSED**

- PLACE** **PEER 7** in **Controlled Access (MODE 17)**
- VERIFY** **PEER 7** is in **XA** **MODE 17**
- VERIFY** The gate box **Controlled Access** light is **OFF**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **OFF**
- OPEN** Gate **6GE1** with the **#14 RC CA** key
- VERIFY** Gate **6GE1** is **OPEN**
- CLOSE** Gate **6GE1**

- PLACE** **PEER 7** in **Restricted Access (Mode 8)**
- VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- VERIFY** The gate box **Restricted Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **OFF**
- VERIFY** Attempt to **open** gate **6GE1** with **S** key is **SUCCESSFUL**
- VERIFY** Attempt to **open** Gate **6GE1** with **#14 RC CA** key is **SUCCESSFUL**
- VERIFY** Attempt to open **6GE1** with **Blue card** **SUCCESSFUL**
- VERIFY** Attempt to open **6GE1** with **Star card** **SUCCESSFUL**
- VERIFY** Attempt to open **6GE1** with any other

- VERIFY** **Expt. _____ card** **FAIL**
During attempt with Expt. Card Reader light is **RED**
- PLACE** **PEER 7 in Safe Access (Mode 2)**
- VERIFY** **PEER 7 is in Safe Access** **MODE 2**
- VERIFY** **The gate box Controlled Access light is** **ON**
- VERIFY** **The warning lights on both sides of the gate indicate:** **ON**
- OPEN** **CALL MCR FOR CROSSOVER AMBER** **ON**
Gate 6GE1 with Simultaneous Release and #14 CA Key
- VERIFY** **Gate 6GE1 is** **OPEN**
- CLOSE** **Gate 6GE1**
- CHECK** **for test acceptance of ENTRY GATE at 6GE1**

1.8 Test of Iris Scanner and Local Keytree located at gate 6GE1

- PLACE** **PEER 7 in CA, Mode 16**
- VERIFY** **PEER 7 is in CA** **MODE 16**
- SCAN** **Valid Personnel # 1 with Iris Scanner at gate 6GE1**
- VERIFY** **Valid Personnel # 1 is** **RECOGNIZED**
- VERIFY** **All green key-enabled lights in Local keytree at 6GE1 are** **ON**
- HAVE** **Valid Personnel # 1 uncapture Key # _____ from Local Keytree at 6GE1**
- VERIFY** **Corresp Key # _____ amber light is** **ON**
- VERIFY** **Attempt to enter 6GE1 with STAR key # _____ and SR is** **SUCCESSFUL**
- SCAN** **Valid Personnel # 2 with Iris Scanner at 6GE1**
- VERIFY** **Valid Personnel # 2 is** **RECOGNIZED**
- VERIFY** **All green key-enabled lights in STAR Local keytree, except key # _____, at gate 6GE1 are** **ON**
- HAVE** **Valid Personnel # 2 uncapture Key # _____ from Local Keytree at 6GE1**
- VERIFY** **Corresp Key # _____ amber light is** **ON**
- VERIFY** **Attempt to enter 6GE1 with STAR key # _____ and SR is** **SUCCESSFUL**
- SCAN** **Valid Personnel # 2 with Iris Scanner at 6GE1**
- VERIFY** **Valid Personnel # 2 is** **RECOGNIZED**
- VERIFY** **Only green key-enabled light # _____ in Local keytree at 6GE1 is** **ON**
- HAVE** **Valid Personnel # 2 capture Key # _____ from Local Keytree at 6GE1**
- VERIFY** **Corresp Key # _____ amber light is** **OFF**
- SCAN** **Valid Personnel # 1 with Iris Scanner at 6GE1**
- VERIFY** **Valid Personnel # 1 is** **RECOGNIZED**
- VERIFY** **Only green key-enabled light # _____ in Local keytree at 6GE1 is** **ON**
- HAVE** **Valid Personnel # 1 capture Key # _____**

- VERIFY** from Local Keytree at **6GE1**
PLACE Corresp Key # _____ **amber** light is **OFF**
PEER 7 in **Controlled Access (XA), Mode 17**
 - VERIFY** **PEER 7** is in **XA** **MODE 17**
 - SCAN** **Valid Personnel # 3** with **Iris Scanner** at **6GE1**
 - VERIFY** **Valid Personnel # 3** **RECOGNIZED**
 - VERIFY** **All green key-enabled lights in Local keytree at 6GE1 are** **OFF**
 - PLACE** **PEER 7** in **Restricted Access (Mode 8)**
 - VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- Check for acceptance of Test of Iris Scanner and Local Keytree located at gate 6GE1**

1.9 Test of Bypass of STAR Local Keytree located at gate 6GE1

- PLACE** **PEER 7** in **CA, Mode 16**
- VERIFY** **PEER 7** is in **CA** **MODE 16**
- VERIFY** MCR sees STAR local keytree Div A and Div B **COMPLETE**
- VERIFY** STAR local keytree Bypass key is in **NOT BYPASS**
- SCAN** **Valid Personnel** with **Iris Scanner** at gate **6GE1**
- VERIFY** **Valid Personnel** is **RECOGNIZED**
- VERIFY** **All green key-enabled lights in STAR Local keytree at gate 6GE1 are** **ON**
- HAVE** **Valid Personnel** uncapture Key # _____ from Local Keytree at gate 6GE1
- VERIFY** Corresp Key # _____ **amber** light is **ON**
- VERIFY** MCR sees STAR local keytree Div A and Div B **INCOMPLETE**
- TURN** STAR local keytree Bypass key to **BYPASS**
- VERIFY** STAR local keytree Bypass key is in **BYPASS**
- VERIFY** MCR sees STAR local keytree Div A and Div B **COMPLETE**
- TURN** STAR local keytree Bypass key to **NOT BYPASS**
- VERIFY** STAR local keytree Bypass key is in **NOT BYPASS**
- VERIFY** MCR sees STAR local keytree Div A and Div B **INCOMPLETE**
- SCAN** **Valid Personnel** with **Iris Scanner** at gate **6GE1**
- VERIFY** **Valid Personnel** is **RECOGNIZED**
- VERIFY** **Only green key-enabled light # _____ in Local keytree at gate 6GE1 is** **ON**
- HAVE** **Valid Personnel** capture Key # _____ from Local

- VERIFY** Keytree at gate **6GE1**
 Corresp Key # _____ **amber** light is **OFF**
- VERIFY** MCR sees STAR local keytree Div A and Div B **COMPLETE**

Check for acceptance of Test of Bypass of STAR Local Keytree located at gate 6GE1

1.10 Test of ENTRY GATE at 6GE2

- VERIFY** Entry Gate at **6GE2** has been inspected
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER ON
- VERIFY** The Exterior gate box **Controlled Access** light is **ON**
OPEN Gate **6GE2** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Simultaneous Release **Buzzer** **SOUNDS**
- VERIFY** Gate **6GE2** is **OPEN**
- VERIFY** MCR sees the gate is **OPEN**
SECURE 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 the gate is **OPEN**
CLOSE The gate
- VERIFY** MCR sees the gate is **CLOSED**
RESET The gate from MCR
- VERIFY** MCR sees the gate is **RESET**
OPEN The gate
- VERIFY** MCR sees the gate is **OPEN**
CLOSE The gate
- VERIFY** MCR sees the gate is **CLOSED**
PLACE **PEER 7** in **Controlled Access (MODE 17)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 17**
- VERIFY** The gate box **Controlled Access** light is **OFF**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER OFF
OPEN Gate **6GE2** with the **#14 RC CA key**
- VERIFY** Gate **6GE2** is **OPEN**
CLOSE Gate **6GE2**
- PLACE** **PEER 7** in **Restricted Access (Mode 8)**

- VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- VERIFY** The gate box **Restricted Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate: **CALL MCR FOR CROSSOVER AMBER** **OFF**
- VERIFY** Attempt to **open** gate **6GE2** with **S** key is **SUCCESSFUL**
- VERIFY** Attempt to **open** Gate **6GE2** with **#14 RC CA** key is **SUCCESSFUL**
- VERIFY** Attempt to open **6GE2** with **Blue card** **SUCCESSFUL**
- VERIFY** Attempt to open **6GE2** with **Star card** **SUCCESSFUL**
- VERIFY** Attempt to open **6GE2** with any other **Expt. _____ card** **FAIL**
- VERIFY** **During** attempt with **Expt. Card Reader light** is **RED**

- PLACE** **PEER 7** in **Safe Access (Mode2)**
- VERIFY** **PEER 7** is in **Safe Access** **MODE 2**
- VERIFY** The gate box **Controlled Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate: **CALL MCR FOR CROSSOVER AMBER** **ON**
- OPEN** Gate **6GE2** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Gate **6GE2** is **OPEN**
- CLOSE** Gate **6GE2**

- CHECK** for test acceptance of **ENTRY GATE** at **6GE2**

1.11 Test of TRENCH GATE at 6MD1 (locked by MCR #184 key)

- VERIFY** Gate has been inspected
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** The gate
- VERIFY** **MCR** sees the gate is **OPEN**
- HOLD** Both gate micro switches **MADE**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RELEASE** Div A micro switch
- VERIFY** **MCR** indicates **Div A** **OPEN**
- HOLD** Both gate micro switches **MADE**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RELEASE** Div B micro switch
- VERIFY** **MCR** indicates **Div B** **OPEN**
- CLOSE** The gate
- VERIFY** **MCR** sees the gate is **CLOSED**
- VERIFY** The gate box Gate Reset light is **OFF**
- RESET** The gate with #15 RC Sweep key
- VERIFY** **MCR** sees the gate is **RESET**
- VERIFY** The gate box Gate Reset light is **ON**
- OPEN** The gate
- VERIFY** **MCR** sees the gate is **CLOSED**
- VERIFY** The gate box Gate Reset light is **OFF**
- CLOSE** The gate

- CHECK** for test acceptance of **TRENCH GATE** at **6MD1**

1.12 Test of EXIT DOOR 6ED1

- | | | | |
|--------------------------|----------------|---|----------------------|
| <input type="checkbox"/> | VERIFY | Gate has been inspected | |
| <input type="checkbox"/> | VERIFY | The door cannot be opened from | OUTSIDE |
| <input type="checkbox"/> | VERIFY | PEER 9 is in Restricted Access | MODE 8 |
| | PLACE | PEER 7 in Controlled Access (MODE 16) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Controlled Access | MODE 16 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| | RELEASE | Div A door micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates | DIV A ≠ DIV B |
| | HOLD | Both of the door micro switches | MADE |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| | RELEASE | Div B door micro switch | |
| <input type="checkbox"/> | VERIFY | MCR indicates | DIV A ≠ DIV B |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 6ED1 Door Reset light is | OFF |
| | RESET | The Door with #15 RC Sweep key at 6ED1 gate box | |
| <input type="checkbox"/> | VERIFY | MCR sees the 6ED1 door is | RESET |
| <input type="checkbox"/> | VERIFY | The 6ED1 Door Reset light is | ON |
| | OPEN | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | OPEN |
| <input type="checkbox"/> | VERIFY | The 6ED1 gate box Gate Reset light is | OFF |
| | CLOSE | The door | |
| <input type="checkbox"/> | VERIFY | MCR sees the door is | CLOSED |
| <input type="checkbox"/> | VERIFY | The 6ED1 gate box Gate Reset light is | OFF |
| | PLACE | PEER 7 in Controlled Access (MODE 17) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Controlled Access | MODE 17 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| | PLACE | PEER 7 in Restricted Access (MODE 8) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Restricted Access | MODE 8 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | OFF |
| | PLACE | PEER 7 in Safe Access (MODE 2) | |
| <input type="checkbox"/> | VERIFY | PEER 7 is in Safe Access | MODE 2 |
| <input type="checkbox"/> | VERIFY | The warning light inside the gate indicates: CALL MCR FOR CROSSOVER AMBER | ON |
| <input type="checkbox"/> | CHECK | for test acceptance of ESCAPE DOOR at 6ED1 | |

1.13 Test of ENTRY GATE at 6GE3

- VERIFY** **INNER** Gate at **6GE3** has been inspected
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **ON**
- VERIFY** The Exterior gate box **Controlled Access** light is **ON**
- OPEN** Gate **6GE3** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Simultaneous Release **Buzzer** **SOUNDS**
- VERIFY** Gate **6GE3** is **OPEN**
- VERIFY** **MCR** sees the gate is **OPEN**
- SECURE** 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 the gate is **OPEN**
- CLOSE** The gate **CLOSED**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RESET** The gate from **MCR**
- VERIFY** **MCR** sees the gate is **RESET**
- OPEN** The gate
- VERIFY** **MCR** sees the gate is **OPEN**
- CLOSE** The gate
- VERIFY** **MCR** sees the gate is **CLOSED**

- PLACE** **PEER 7** in **Controlled Access (MODE 17)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 17**
- VERIFY** The gate box **Controlled Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **ON**
- OPEN** Gate **6GE3** with the **#14 RC CA** key with **Simultaneous Release**
- VERIFY** Gate **6GE3** is **OPEN**
- CLOSE** Gate **6GE3**

- PLACE** **PEER 7** in **Restricted Access (Mode 8)**
- VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- VERIFY** The gate box **Restricted Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate:
CALL MCR FOR CROSSOVER AMBER **OFF**
- VERIFY** Attempt to **open** gate **6GE2** with **S** key is **SUCCESSFUL**
- VERIFY** Attempt to **open** Gate **6GE2** with **#14 RC CA** key is **SUCCESSFUL**
- VERIFY** Attempt to **open** **6GE2** with **Blue card** **SUCCESSFUL**
- VERIFY** Attempt to **open** **6GE2** with **Star card** **FAIL**

- VERIFY** During attempt with **Star Card Reader light** is **RED**
- PLACE** **PEER 7** in **Safe Access (Mode2)**
- VERIFY** **PEER 7** is in **Safe Access** **MODE 2**
- VERIFY** The gate box **Controlled Access** light is **ON**
- VERIFY** The warning lights on both sides of the gate indicate: **CALL MCR FOR CROSSOVER AMBER** **ON**
- OPEN** Gate **6GE3** with **Simultaneous Release** and **#14 CA Key**
- VERIFY** Gate **6GE3** is **OPEN**
- CLOSE** Gate **6GE3**
- CHECK** for test acceptance of **ENTRY GATE** at **6GE3**

1.14 Test ESCAPE DOOR at 6EL1:

- VERIFY** Door has been inspected
- VERIFY** **The door cannot be opened from** **OUTSIDE**
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** The door
- VERIFY** **MCR** sees the door is **OPEN**
- SECURE** The Security Bar micro switch **MADE**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** **MCR** indicates **Div A** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** **MCR** sees the gate is **CLOSED**
- RELEASE** Div B door micro switch
- VERIFY** **MCR** indicates **Div B** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** **MCR** sees the door is **CLOSED**
- RELEASE** The Security Bar micro switch
- VERIFY** **MCR** sees the door is **OPEN**
- CLOSE** The door and latch the Security Bar
- VERIFY** The **6EL1** Door Reset light is **OFF**
- RESET** The Door with #15 RC Sweep key at **6EL1** gate box
- VERIFY** **MCR** sees the **6EL1** door is **RESET**
- VERIFY** The **6EL1** Door Reset light is **ON**
- OPEN** The door
- VERIFY** **MCR** sees the door is **OPEN**
- VERIFY** The **6EL1** gate box Gate Reset light is **OFF**
- CLOSE** The door
- VERIFY** **MCR** sees the door is **CLOSED**
- VERIFY** The **6EL1** gate box Gate Reset light is **OFF**
- CHECK** for test acceptance of **ESCAPE DOOR** at **6EL1**

1.15

Test of EXIT DOOR 6ED2

- VERIFY** Door has been inspected
- VERIFY** The door cannot be opened from **OUTSIDE**
- VERIFY** **PEER 9** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning light inside the gate indicates:
CALL MCR FOR CROSSOVER AMBER **ON**
- OPEN** The door
- VERIFY** **MCR** sees the door is **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** **MCR** sees the door is **CLOSED**
- RELEASE** Div A door micro switch
- VERIFY** **MCR** indicates **Div A** **OPEN**
- HOLD** Both of the door micro switches **MADE**
- VERIFY** **MCR** sees the door is **CLOSED**
- RELEASE** Div B door micro switch
- VERIFY** **MCR** indicates **Div B** **OPEN**
- CLOSE** The door
- VERIFY** **MCR** sees the door is **CLOSED**
- VERIFY** The **6ED2** Door Reset light is **OFF**
- RESET** The Door with **#15 RC Sweep key** at **6ED2** gate box
- VERIFY** **MCR** sees the **6ED2** door is **RESET**
- VERIFY** The **6ED2** Door Reset light is **ON**
- OPEN** The door
- VERIFY** **MCR** sees the door is **OPEN**
- VERIFY** The **6ED2** gate box Gate Reset light is **OFF**
- CLOSE** The door
- VERIFY** **MCR** sees the door is **CLOSED**
- VERIFY** The **6ED2** gate box Gate Reset light is **OFF**
- PLACE** **PEER 7** in **Controlled Access (MODE 17)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 17**
- VERIFY** The warning light inside the gate indicates:
CALL MCR FOR CROSSOVER AMBER **ON**
- PLACE** **PEER 7** in **Restricted Access (MODE 8)**
- VERIFY** **PEER 7** is in **Restricted Access** **MODE 8**
- VERIFY** The warning light inside the gate indicates:
CALL MCR FOR CROSSOVER AMBER **OFF**
- PLACE** **PEER 7** in **Safe Access (MODE 2)**
- VERIFY** **PEER 7** is in **Safe Access** **MODE 2**
- VERIFY** The warning light inside the gate indicates:
CALL MCR FOR CROSSOVER AMBER **ON**
- CHECK** for test acceptance of **ESCAPE DOOR** at **6ED2**

1.16 Test INNER GATE at 7GS1:

- VERIFY** Gate has been inspected
- PLACE PEER 17** in **Restricted Access (Mode 8)**
- VERIFY PEER 17** is in **Restricted Access** **MODE 8**
- PLACE PEER 7** in **Controlled Access (MODE 16)**
- VERIFY PEER 7** 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 MCR** sees the gate is **OPEN**
- CLOSE** The gate
- VERIFY MCR** sees the gate is **CLOSED**

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

1.17 Test OUTER GATE at 7GS1:

- PLACE PEER 17** in **Restricted Access (Mode 8)**
- VERIFY PEER 17** is in **Restricted Access** **MODE 8**
- PLACE PEER 7** in **Controlled Access (MODE 16)**
- VERIFY PEER 7** is in **Controlled Access** **MODE 16**
- VERIFY** The warning lights on both sides of the gate indicate: **CALL MCR FOR CROSSOVER AMBER** **ON**
- OPEN** The gate
- VERIFY MCR** sees the gate is **OPEN**
- CLOSE** The gate
- VERIFY MCR** sees the gate is **CLOSED**

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

Note:
INTERNAL GATES: YGI1, YGI2, XGI1 and XGI2. These gates are controlled by PEER 5 (1000P) and have dedicated micro-switches monitored by PEER 7. These tests verify the operation of the PEER 7 micro-switches.

1.18 Test of INTERNAL GATE at YGI1

- VERIFY** Gate has been inspected
- PLACE PEER 5** is in **Restricted Access (MODE 8)**
- VERIFY PEER 5** is in **Restricted Access** **MODE 8**
- PLACE PEER 7** in **Controlled Access (MODE 16)**
- VERIFY PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** Gate **YGI1**
- VERIFY MCR** sees the gate is **OPEN**
- CLOSE** The gate

- CHECK** for test acceptance of **INTERNAL GATE** at **YGI1**

1.19 Test of INTERNAL GATE at YGI2

- VERIFY** Gate has been inspected
- VERIFY** **PEER 5** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** Gate **YGI2**
- VERIFY** **MCR** sees the gate is **OPEN**
- CLOSE** The gate
- CHECK** for test acceptance of **INTERNAL GATE** at **YGI2**

1.20 Test of INTERNAL GATE at XGI1

- VERIFY** Gate has been inspected
- VERIFY** **PEER 5** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** Gate **XGI1**
- VERIFY** **MCR** sees the gate is **OPEN**
- CLOSE** The gate
- CHECK** for test acceptance of **INTERNAL GATE** at **XGI1**

1.21 Test of INTERNAL GATE at XGI2

- VERIFY** Gate has been inspected
- VERIFY** **PEER 5** is in **Restricted Access** **MODE 8**
- PLACE** **PEER 7** in **Controlled Access (MODE 16)**
- VERIFY** **PEER 7** is in **Controlled Access** **MODE 16**
- OPEN** Gate **XGI2**
- VERIFY** **MCR** sees the gate is **OPEN**
- CLOSE** The gate
- CHECK** for test acceptance of **INTERNAL GATE** at **XGI2**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____