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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.22.b AGS Gate Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.22		

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

4.120.22.b AGS 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 AGS (Bstr) gates following Table-1, below

Gate	Micro Switch		Verify Elec Wiring OK	Verify Gate Box OK	Verify Open/Close Fctns OK	Verify all x's Corr.	Inspn OK Init.
	Verify Align OK	Verify Openn OK					
South	<input type="checkbox"/>	<input type="checkbox"/>					
South Shield Door (SSD)	<input type="checkbox"/>	<input type="checkbox"/>					
C14 Escape (C14-E)	<input type="checkbox"/>	<input type="checkbox"/>					
N322	<input type="checkbox"/>	<input type="checkbox"/>					
K7 Escape (K7-E)	<input type="checkbox"/>	<input type="checkbox"/>					
North Conj (NrCon)	<input type="checkbox"/>	<input type="checkbox"/>					
North Shield Door (NSD)	<input type="checkbox"/>	<input type="checkbox"/>					
North	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Term Room (SwtTr)	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Pwr Room (SwtPr)	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Trgt Bldg (SwtTgt)	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Cable Trench (SwtCbl)	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Pipe Trench (SwtPip)	<input type="checkbox"/>	<input type="checkbox"/>					
So Wiring Tnl Hatch (SwtH)	<input type="checkbox"/>	<input type="checkbox"/>					
No Wiring Tnl Hatch (NwtH)	<input type="checkbox"/>	<input type="checkbox"/>					
FEB Primary Gate 2 (FEB2)	<input type="checkbox"/>	<input type="checkbox"/>					

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

Table 1: Summary of Physical Inspection of AGS Gates

Check for acceptance of Visual check on AGS gates

1.2 Test of South gate

<input type="checkbox"/>	VERIFY	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at South gate is	OK
	PLACE	AGS in Res. Acs. (RA) from MCR with 693 key and Light/Button (L/B) on Y -Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y -Panel AGS in	RA
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 RA light is	ON
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 Beam Operational light is	OFF
<input type="checkbox"/>	VERIFY	Attempt to open South gate with 256 key is	SUCCESSFUL
	HOLD	Crash glass microswitch (CGS), gate m-switch (GS) and Latch switch (LS) .	CLOSED
<input type="checkbox"/>	VERIFY	At enclosures 4098 and 4099 Crash glass light (CGL) <input type="checkbox"/> , Gate light (GL) <input type="checkbox"/> and Latch light (LL) <input type="checkbox"/> are	ON
	OPEN	CGS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	OFF
	CLOSE	CGS and keep closed	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	GS	
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 GL <input type="checkbox"/> and LL <input type="checkbox"/>	OFF
	CLOSE	GS and keep closed	CLOSED
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	LS	
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 LL	OFF
	CLOSE	LS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	RELEASE	GS and LS	
	HOLD	Redundant gate microswitch (RDS)	CLOSED
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 Redundant gate light (RGL) is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor South gate RDS	CLOSED
	OPEN	RDS	
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 RGL is	OFF
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor South gate RDS	OPEN
	CLOSE	South gate	
	PLACE	AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y -Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y -Panel AGS in	CA
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 RA light is	OFF
<input type="checkbox"/>	VERIFY	At encl 4098 Beam Disabled light is	ON
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 Not Reset light is	ON
	RESET	South gate at encl 4099 with BNL 13 key	
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 Reset light is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor South gate	RESET
<input type="checkbox"/>	VERIFY	Attempt to open South gate at encl 4099 with BNL 13 key and Sim. release on W -Panel from MCR	SUCCESSFUL
<input type="checkbox"/>	VERIFY	At encls 4098 and 4099 Not Reset light is	ON

- VERIFY** MCR sees at Opto monitor **South gate** **NOT RESET**
- CLOSE** **South gate**
- VERIFY** MCR sees at **Y-Panel AGS** in **CA**
- VERIFY** Attempt to **open South gate** at encl **4099** with **BNL 13 key without Sim. release** from **MCR** **SUCCESSFUL**
- CLOSE** **South gate**
- VERIFY** MCR sees at Opto monitor **South gate RDS** **CLOSED**
- Check for acceptance of Test of South gate**

1.3 Test of South Shield Door (SSD)

- VERIFY** Hardware , Electrical at **SSD** is **OK**
- PLACE** AGS in Res. Acs. (**RA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** MCR sees at **Y-Panel AGS** in **RA**
- VERIFY** At encls 2921 and 2922 **RA** light is **ON**
- VERIFY** At encls 2921 and 2922 **Beam Disabled** light is **ON**
- VERIFY** Attempt to **open SSD** with **P/B** is **SUCCESSFUL**
- PLACE** AGS in Con. Acs. (**CA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** MCR sees at **Y-Panel AGS** in **CA**
- VERIFY** At encls 2921 and 2922 **RA** light is **OFF**
- HOLD** Door switch (**DS**) **CLOSED**
- VERIFY** At encls 2921 and 2922 **DS** light is **ON**
- OPEN** **DS**
- VERIFY** At encls 2921 and 2922 **DS** light is **OFF**
- HOLD** Redundant door switch (**RDS**) **CLOSED**
- VERIFY** At encls 2921 and 2922 Redundant gate light (**RGL**) is **ON**
- VERIFY** MCR sees at Opto monitor **SSD (RDS)** is **CLOSED**
- OPEN** Redundant gate microswitch (**RDS**)
- VERIFY** At encls 2921 and 2922 **RGL** is **OFF**
- VERIFY** MCR sees at Opto monitor **SSD (RDS)** is **OPEN**
- CLOSE** **SSD**
- VERIFY** At encls 2921 and 2922 **Not Reset** light is **ON**
- RESET** **SSD** at encl 2922 with **715** key
- VERIFY** At encls 2921 and 2922 **Reset** light is **ON**
- VERIFY** MCR sees at Opto monitor **SSD** **RESET**
- VERIFY** Attempt to **open SSD** at encl **2921** with **BNL-4** key and **P/B** is **SUCCESSFUL**
- VERIFY** At encls 2921 and 2922 **Not Reset** light is **ON**
- VERIFY** MCR sees at Opto monitor **SSD** **NOT RESET**
- CLOSE** **SSD**
- VERIFY** MCR sees at Opto monitor **SSD (RDS)** is **CLOSED**
- Check for acceptance of Test of SSD**

1.4 Test of C14 Escape (C14-E) gate

- | | | | |
|--------------------------|--|---|------------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at C14-E gate is | OK |
| | PLACE | AGS in Res. Acs. (RA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | RA |
| <input type="checkbox"/> | VERIFY | At encls 1388 and (1389 in bathroom) RA light is | ON |
| <input type="checkbox"/> | VERIFY | Electrical tape on crash glass is | OK |
| <input type="checkbox"/> | VERIFY | Crash glass light (CGL) is | ON |
| | HOLD | Gate m-switch (GS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encl 1388 and 4099 GL is | ON |
| | OPEN | GS and leave open | |
| <input type="checkbox"/> | VERIFY | At encls 1388 GL is | OFF |
| | HOLD | Redundant gate microswitch (RDS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encls 1388 gate light (RGL) is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor C14-E gate RDS | CLOSED |
| | OPEN | RDS | |
| <input type="checkbox"/> | VERIFY | At encls 1388 RGL is | OFF |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor C14-E gate RDS | OPEN |
| | CLOSE | C14-E gate | |
| <input type="checkbox"/> | VERIFY | At encls 1388,1389(bathroom) and 1390 (Ring door) Not Reset light is | ON |
| | PLACE | AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | CA |
| <input type="checkbox"/> | VERIFY | At encls 1388, 1389 and 1390 RA light is | OFF |
| <input type="checkbox"/> | VERIFY | At encl 1388 Beam Disabled light is | ON |
| <input type="checkbox"/> | VERIFY | At encls 1388,1389 and 1390 (Ring door) Not Reset light is | ON |
| | RESET | C14-E gate at encl 1389 with 715 key | |
| <input type="checkbox"/> | VERIFY | At encls 1388,1389 and 1390 Reset lights are | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor C14-E gate | RESET |
| | OPEN | C14-E gate | |
| <input type="checkbox"/> | VERIFY | At encls 1388, 1389 and 1390 Not Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor C14-E gate | NOT RESET |
| | CLOSE | C14-E gate | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor C14-E gate RDS | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of C14 Escape (C14-E) gate | | |

1.5 Test of N322 gate

- VERIFY** Hardware , Electrical at **N322** gate is **OK**

- PLACE** AGS in Res. Ac. (**RA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **RA**

- VERIFY** Attempt to **open N322** gate with **256** key is **SUCCESSFUL**

- HOLD** Crash glass microswitch (**CGS**), gate m-switch (**GS**) and Latch switch (**LS**) . **CLOSED**
- VERIFY** At enclosures 5031 and 5032 Crash glass light (**CGL**) , Gate light (**GL**) and Latch light (**LL**) are **ON**
- OPEN** **CGS**
- VERIFY** **CGL** , **GL** and **LL** are **OFF**
- CLOSE** **CGS** and keep **closed**
- VERIFY** **CGL** , **GL** and **LL** are **ON**

- OPEN** **GS**
- VERIFY** At encls 5031 and 5032 **GL** and **LL** **OFF**
- CLOSE** **GS** and keep **closed** **CLOSED**
- VERIFY** **CGL** , **GL** and **LL** are **ON**

- OPEN** **LS**
- VERIFY** At encls 5031 and 5032 **LL** **OFF**
- CLOSE** **LS**
- VERIFY** **CGL** , **GL** and **LL** are **ON**
- RELEASE** **GS** and **LS**

- HOLD** Redundant gate microswitch (**RDS**) **CLOSED**
- VERIFY** At encls 5031 and 5032 Redundant gate light (**RGL**) is **ON**
- VERIFY** **MCR** sees at Opto monitor **N322** gate **RDS** **CLOSED**
- OPEN** **RDS**
- VERIFY** At encls 5031 and 5032 **RGL** is **OFF**
- VERIFY** **MCR** sees at Opto monitor **N322** gate **RDS** **OPEN**

- CLOSE** **N322** gate

- VERIFY** At encls 5031 and 5032 **Not Reset** light is **ON**
- VERIFY** **MCR** sees at Opto monitor **N322** gate **NOT RESET**

- PLACE** AGS in Con. Ac. (**CA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **CA**
- VERIFY** At encls 5031 and 5032 **Not Reset** light is **ON**

- RESET** **N322** gate at encl 5032 with **715** key
- VERIFY** At encls 5031 and 5032 **Reset** lights are **ON**
- VERIFY** **MCR** sees at Opto monitor **N322** gate **RESET**

- VERIFY** Attempt to **open N322** gate at encl **5032** with **715** key and **Sim.** **SUCCESSFUL**
- VERIFY** At encls 5031 and 5032 **Not Reset** light is **ON**
- VERIFY** **MCR** sees at Opto monitor **N322** gate **NOT RESET**

- CLOSE** **N322** gate
- VERIFY** **MCR** sees at Opto monitor **N322** gate **RDS** **CLOSED**
- Check for acceptance of Test of N322 gate**

1.6 Test of K7 Escape (K7-E) gate

- | | | | |
|--------------------------|---|---|------------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at K7-E gate is | OK |
| | PLACE | AGS in Res. Acs. (RA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | RA |
| <input type="checkbox"/> | VERIFY | At encls 1385 (upstairs) and 1386 (downstairs) RA light is | ON |
| <input type="checkbox"/> | VERIFY | Electrical tape on crash glass is | OK |
| <input type="checkbox"/> | VERIFY | Crash glass light (CGL) is | ON |
| | HOLD | Gate m-switch (GS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encl 1385 Gate light (GL) is | ON |
| | OPEN | GS and leave open | |
| <input type="checkbox"/> | VERIFY | At encls 1385 GL is | OFF |
| | HOLD | Redundant gate microswitch (RDS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encls 1385 redundant gate light (RGL) is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor K7-E gate RDS | CLOSED |
| | OPEN | RDS | |
| <input type="checkbox"/> | VERIFY | At encls 1385 RGL is | OFF |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor K7-E gate RDS | OPEN |
| | CLOSE | K7-E gate | |
| | PLACE | AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | CA |
| <input type="checkbox"/> | VERIFY | At encls 1385 and 1386 RA light is | OFF |
| <input type="checkbox"/> | VERIFY | At encl 1385 Beam Disabled light is | ON |
| <input type="checkbox"/> | VERIFY | At encls 1385 and 1386 Not Reset light is | ON |
| | RESET | K7-E gate at encl 1386 with 715 key | |
| <input type="checkbox"/> | VERIFY | At encls 1385 and 1386 Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor K7-E gate | RESET |
| | OPEN | K7-E gate | |
| <input type="checkbox"/> | VERIFY | At encls 1385 and 1386 Not Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor K7-E gate | NOT RESET |
| | CLOSE | K7-E gate | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor K7-E gate RDS | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of C14 Escape (K7-E) gate | | |

1.7 Test of North Conjunction (NrCon) gate

- VERIFY** Hardware , Electrical at **NrCon** gate is **OK**

- PLACE** AGS in Res. Acs. (**RA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **RA**

- VERIFY** At encls 1369 and 1370 **RA** light is **ON**
- VERIFY** At encls 1369 and 1370 **Beam Operational** light is **OFF**

- VERIFY** Attempt to **open NrCon** gate with **256** key is **SUCCESSFUL**

- HOLD** Crash glass microswitch (**CGS**), gate m-switch (**GS**) and Latch switch (**LS**) . **CLOSED**
- VERIFY** At enclosures 1369 and 1370 Crash glass light (**CGL**) , Gate light (**GL**) and Latch light (**LL**) are **ON**
- OPEN** **CGS**
- VERIFY** **CGL** , **GL** and **LL** are **OFF**
- CLOSE** **CGS** and keep **closed**
- VERIFY** **CGL** , **GL** and **LL** are **ON**

- OPEN** **GS**
- VERIFY** At encls 1369 and 1370 **GL** and **LL** **OFF**
- CLOSE** **GS** and keep **closed** **CLOSED**
- VERIFY** **CGL** , **GL** and **LL** are **ON**

- OPEN** **LS**
- VERIFY** At encls 1369 and 1370 **LL** **OFF**
- CLOSE** **LS**
- VERIFY** **CGL** , **GL** and **LL** are **ON**
- RELEASE** **GS** and **LS**

- HOLD** Redundant gate microswitch (**RDS**) **CLOSED**
- VERIFY** At encls 1369 and 1370 Redundant gate light (**RGL**) is **ON**
- VERIFY** **MCR** sees at Opto monitor **NrCon** gate **RDS** **CLOSED**
- OPEN** **RDS**
- VERIFY** At encls 1369 and 1370 **RGL** is **OFF**
- VERIFY** **MCR** sees at Opto monitor **NrCon** gate **RDS** **OPEN**

- CLOSE** **NrCon** gate

- PLACE** AGS in Con. Acs. (**CA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **CA**
- VERIFY** At encls 1369 and 1370 **RA** light is **OFF**
- VERIFY** At encls 1369 and 1370 **Beam Disabled** light is **ON**
- VERIFY** At encls 1369 and 1370 **Not Reset** light is **ON**

- RESET** **NrCon** gate at encl 1370 with **715** key
- VERIFY** At encls 1369 and 1370 **Reset** lights are **ON**
- VERIFY** **MCR** sees at Opto monitor **NrCon** gate **RESET**
- VERIFY** Attempt to **open NrCon** gate at encl **1370** with **BNL 13** key and **Sim.** **SUCCESSFUL**
- VERIFY** At encls 1369 and 1370 **Not Reset** light is **ON**
- VERIFY** **MCR** sees at Opto monitor **NrCon** gate **NOT RESET**
- CLOSE** **NrCon** gate
- VERIFY** **MCR** sees at Opto monitor **NrCon** gate **RDS** **CLOSED**
- Check for acceptance of Test of North Conjunction (NrCon) gate**

1.8 Test of North Shield Door (NSD)

- | | | | |
|--------------------------|--|---|-------------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at NSD is | OK |
| | PLACE | AGS in Res. Ac. (RA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | RA |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 RA light is | ON |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 Beam Disabled light is | ON |
| <input type="checkbox"/> | VERIFY | Attempt to open NSD with P/B is | SUCCESSFUL |
| | HOLD | Door switch (DS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 DS light is | ON |
| | OPEN | DS | |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 DS light is | OFF |
| | HOLD | Redundant door switch (RDS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 Redundant gate light (RGL) is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NSD (RDS) is | CLOSED |
| | OPEN | Redundant gate microswitch (RDS) | |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 RGL is | OFF |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NSD (RDS) is | OPEN |
| | CLOSE | NSD | |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 Not Reset light is | ON |
| | PLACE | AGS in Con. Ac. (CA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | CA |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 RA light is | OFF |
| | RESET | NSD at encl 2924 with 715 key | |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 Reset lights are | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NSD | RESET |
| <input type="checkbox"/> | VERIFY | Attempt to open NSD at encl 2924 with BNL-4 key and P/B is | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | At encls 2924 and 2925 Not Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NSD | NOT RESET |
| | CLOSE | NSD | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor NSD (RDS) is | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of North Shield Door (NSD) | | |

1.9 Test of North gate

- | | | | |
|--------------------------|---------------|--|-------------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at North gate is | OK |
| | PLACE | AGS in Res. Ac. (RA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | RA |
| <input type="checkbox"/> | VERIFY | At encls 1369 and 1370 RA light is | ON |
| <input type="checkbox"/> | VERIFY | At encls 1369 and 1370 Beam Operational light is | OFF |
| <input type="checkbox"/> | VERIFY | Attempt to open North gate with 256 key is | SUCCESSFUL |

	HOLD	Crash glass microswitch (CGS), gate m-switch (GS) and Latch switch (LS) .	CLOSED
<input type="checkbox"/>	VERIFY	At enclosures 1369 and 1370 Crash glass light (CGL) <input type="checkbox"/> , Gate light (GL) <input type="checkbox"/> and Latch light (LL) <input type="checkbox"/> are	ON
	OPEN	CGS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	OFF
	CLOSE	CGS and keep closed	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	GS	
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 GL <input type="checkbox"/> and LL <input type="checkbox"/>	OFF
	CLOSE	GS and keep closed	CLOSED
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	LS	
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 LL	OFF
	CLOSE	LS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	RELEASE	GS and LS	
	HOLD	Redundant gate microswitch (RDS)	CLOSED
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 Redundant gate light (RGL) is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor North gate RDS	CLOSED
	OPEN	RDS	
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 RGL is	OFF
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor North gate RDS	OPEN
	CLOSE	North gate	
	PLACE	AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y-Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y-Panel AGS in	CA
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 RA light is	OFF
<input type="checkbox"/>	VERIFY	At encl 1369 Beam Disabled light is	ON
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 Not Reset light is	ON
	RESET	North gate at encl 1370 with BNL 13 key	
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 Reset light is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor North gate	RESET
<input type="checkbox"/>	VERIFY	Attempt to open North gate at encl 1370 with BNL 13 key and Sim. release from MCR	SUCCESSFUL
<input type="checkbox"/>	VERIFY	At encls 1369 and 1370 Not Reset light	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor North gate	NOT RESET
	CLOSE	North gate	
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor North gate RDS	CLOSED
<input type="checkbox"/>	Check for acceptance of Test of North gate		

1.10 Test of South Wiring Tunnel Terminal Room (SwtTr) gate

- | | | | |
|--------------------------|---|--|-------------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at SwtTr gate is | OK |
| | PLACE | AGS in Restricted Access (RA) from MCR with 693 key and P/B | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor AGS in | RA |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 RA light is | ON |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 CA light is | OFF |
| <input type="checkbox"/> | VERIFY | Attempt to open SwtTr gate with P/B is | SUCCESSFUL |
| | PLACE | AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | CA |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 RA light is | OFF |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 CA light is | ON |
| | HOLD | Crash glass microswitch (CGS), gate m-switch (GS) and Latch switch (LS) . | CLOSED |
| <input type="checkbox"/> | VERIFY | At enclosures 1395 and 1396 Crash glass light (CGL) <input type="checkbox"/> , Gate light (GL) <input type="checkbox"/> and Latch light (LL) <input type="checkbox"/> are | ON |
| | OPEN | CGS | |
| <input type="checkbox"/> | VERIFY | CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are | OFF |
| | CLOSE | CGS and keep closed | |
| <input type="checkbox"/> | VERIFY | CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are | ON |
| | OPEN | GS | |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 GL <input type="checkbox"/> and LL <input type="checkbox"/> | OFF |
| | CLOSE | GS and keep closed | CLOSED |
| <input type="checkbox"/> | VERIFY | CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are | ON |
| | OPEN | LS | |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 LL | OFF |
| | CLOSE | LS | |
| <input type="checkbox"/> | VERIFY | CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are | ON |
| | RELEASE | GS and LS | |
| | HOLD | Redundant gate microswitch (RDS) | CLOSED |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 Redundant gate light (RGL) is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTr gate RDS | CLOSED |
| | OPEN | RDS | |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 RGL is | OFF |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTr gate RDS | OPEN |
| | CLOSE | SwtTr gate | |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 Not Reset light is | ON |
| | RESET | SwtTr gate at encl 1396 with 715 key | |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 Reset lights are | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTr gate | RESET |
| <input type="checkbox"/> | VERIFY | Attempt to open SwtTr gate at encl 1396 with 715 key and Sim. release on W-panel from MCR | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | At encls 1395 and 1396 Not Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTr gate | NOT RESET |
| | CLOSE | SwtTr gate | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTr gate RDS | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of South Wiring Tunnel Terminal Room (SwtTr) gate | | |

1.11 Test of South Wiring Tunnel Power Room (SwtPr) gate

<input type="checkbox"/>	VERIFY	Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at SwtPr gate is	OK
<input type="checkbox"/>	PLACE	AGS in Res. Accs. (RA) from MCR with 693 key and L/B on Y-Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y-Panel AGS in	RA
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 RA light is	ON
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 CA light is	OFF
<input type="checkbox"/>	VERIFY	Attempt to open SwtPr gate with P/B is	SUCCESSFUL
<input type="checkbox"/>	PLACE	AGS in Con. Accs. (CA) from MCR with 693 key and L/B on Y-Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y-Panel AGS in	CA
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 RA light is	OFF
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 CA light is	ON
	HOLD	Crash glass microswitch (CGS), gate m-switch (GS) and Latch switch (LS) .	CLOSED
<input type="checkbox"/>	VERIFY	At enclosures 1398 and 1399 Crash glass light (CGL) <input type="checkbox"/> , Gate light (GL) <input type="checkbox"/> and Latch light (LL) <input type="checkbox"/> are	ON
	OPEN	CGS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	OFF
	CLOSE	CGS and keep closed	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	GS	
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 GL <input type="checkbox"/> and LL <input type="checkbox"/>	OFF
	CLOSE	GS and keep closed	CLOSED
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	LS	
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 LL	OFF
	CLOSE	LS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	RELEASE	GS and LS	
	HOLD	Redundant gate microswitch (RDS)	CLOSED
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 Redundant gate light (RGL) is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor SwtPr gate RDS	CLOSED
	OPEN	RDS	
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 RGL is	OFF
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor SwtPr gate RDS	OPEN
	CLOSE	SwtPr gate	
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 Not Reset light is	ON
	RESET	SwtPr gate at encl 1399 with 715 key	
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 Reset lights are	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor SwtPr gate	RESET
<input type="checkbox"/>	VERIFY	Attempt to open SwtPr gate at encl 1399 with 715 key and Sim. release on W-Panel from MCR	SUCCESSFUL
<input type="checkbox"/>	VERIFY	At encls 1398 and 1399 Not Reset light is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor SwtPr gate	NOT RESET

- CLOSE** **SwtPr** gate
- VERIFY** MCR sees at Opto monitor **SwtPr** gate **RDS** **CLOSED**
- Check for acceptance of Test of South Wiring Tunnel Power Room (SwtPr) gate**

1.12 Test of South Wiring Tunnel Target Building (SwtTgt) gate

- VERIFY** Hardware , Electrical at **SwtTgt** gate is **OK**
- PLACE** AGS in Restricted Access (**RA**) from **MCR** with **693** key and **P/B**
- VERIFY** **MCR** sees at Opto monitor **AGS** in **RA**
- VERIFY** At encls 1392 and 1393 **RA** light is **ON**
- VERIFY** At encls 1392 and 1393 **CA** light is **OFF**
- VERIFY** Attempt to open **SwtTgt** gate with **256** key is **SUCCESSFUL**
- PLACE** AGS in Con. Acc. (**CA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel** **AGS** in **CA**
- VERIFY** At encls 1392 and 1393 **RA** light is **OFF**
- VERIFY** At encls 1395 and 1396 **CA** light is **ON**
- HOLD** Crash glass microswitch (**CGS**), gate m-switch (**GS**) and Latch switch (**LS**) .
- VERIFY** At enclosures 1392 and 1393 Crash glass light (**CGL**) , Gate light (**GL**) and Latch light (**LL**) are **CLOSED**
- OPEN** **CGS**
- VERIFY** **CGL** , **GL** and **LL** are **OFF**
- CLOSE** **CGS** and keep **closed**
- VERIFY** **CGL** , **GL** and **LL** are **ON**
- OPEN** **GS**
- VERIFY** At encls 1392 and 1393 **GL** and **LL** **OFF**
- CLOSE** **GS** and keep **closed**
- VERIFY** **CGL** , **GL** and **LL** are **CLOSED**
- OPEN** **LS**
- VERIFY** At encls 1392 and 1393 **LL** **OFF**
- CLOSE** **LS**
- VERIFY** **CGL** , **GL** and **LL** are **ON**
- RELEASE** **GS** and **LS**
- HOLD** Redundant gate microswitch (**RDS**) **CLOSED**
- VERIFY** At encls 1392 and 1393 Redundant gate light (**RGL**) is **ON**
- VERIFY** MCR sees at Opto monitor **SwtTgt** gate **RDS** **CLOSED**
- OPEN** **RDS**
- VERIFY** At encls 1392 and 1393 **RGL** is **OFF**
- VERIFY** MCR sees at Opto monitor **SwtTgt** gate **RDS** **OPEN**
- CLOSE** **SwtTgt** gate
- VERIFY** At encls 1392 and 1393 **Not Reset** light is **ON**
- RESET** **SwtTgt** gate at encl 1393 with **715** key
- VERIFY** At encls 1392 and 1393 **Reset** lights are **ON**

- | | | | |
|--------------------------|--|---|-------------------|
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTgt gate | RESET |
| <input type="checkbox"/> | VERIFY | Attempt to open SwtTgt gate at encl 1393 with 715 key and Sim. release on W-Panel from MCR | SUCCESSFUL |
| <input type="checkbox"/> | VERIFY | At encls 1392 and 1393 Not Reset light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTgt gate | NOT RESET |
| | CLOSE | SwtTgt gate | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTgt gate RDS | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of South Wiring Tunnel Target Building (SwtTgt) gate | | |

1.13 Test of South Wiring Tunnel Cable Trench (SwtCbl) gate

- | | | | |
|--------------------------|---|--|---------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at SwtCbl gate is | OK |
| <input type="checkbox"/> | VERIFY | South Wiring Tunnel Target Building (SwtTgt) gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTgt gate RDS | CLOSED |
| <input type="checkbox"/> | VERIFY | SwtCbl gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | South Wiring Tunnel Pipe Trench (SwtPip) gate is | CLOSED |
| | PLACE | AGS in Con. Acc. (CA) from MCR with 693 key and L/B on Y-Panel | |
| <input type="checkbox"/> | VERIFY | MCR sees at Y-Panel AGS in | CA |
| <input type="checkbox"/> | VERIFY | At encls 1392 and 1393 RA light is | OFF |
| <input type="checkbox"/> | VERIFY | At encls 1392 and 1393 CA light is | ON |
| <input type="checkbox"/> | VERIFY | At encl 1392 Power Building Doors Closed (PBDC) light is | ON |
| | OPEN | SwtCbl gate | |
| <input type="checkbox"/> | VERIFY | At encl 1392 PBDC light is | OFF |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtCbl gate RDS | OPEN |
| | CLOSE | SwtCbl gate | |
| <input type="checkbox"/> | VERIFY | At encl 1392 PBDC light is | ON |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtCbl gate RDS | CLOSED |
| <input type="checkbox"/> | Check for acceptance of Test of South Wiring Tunnel Cable Trench (SwtCbl) gate | | |

1.14 Test of South Wiring Tunnel Pipe Trench (SwtPip) gate

- | | | | |
|--------------------------|---------------|--|---------------|
| <input type="checkbox"/> | VERIFY | Hardware <input type="checkbox"/> , Electrical <input type="checkbox"/> at SwtPip gate is | OK |
| <input type="checkbox"/> | VERIFY | South Wiring Tunnel Target Building (SwtTgt) gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor SwtTgt gate RDS | CLOSED |
| <input type="checkbox"/> | VERIFY | SwtPip gate is | CLOSED |
| <input type="checkbox"/> | VERIFY | South Wiring Tunnel Cable Trench (SwtCbl) gate is | CLOSED |
| | PLACE | AGS in Controlled Access (CA) from MCR with 693 key and P/B | |
| <input type="checkbox"/> | VERIFY | MCR sees at Opto monitor AGS in | CA |

- VERIFY** At encls 1392 and 1393 **RA** light is **OFF**
- VERIFY** At encls 1392 and 1393 **CA** light is **ON**

- VERIFY** At encl 1392 Power Building Doors Closed (**PBDC**) light is **ON**

- OPEN** **SwtPip** gate
- VERIFY** At encl 1392 **PBDC** light is **OFF**
- VERIFY** MCR sees at Opto monitor **SwtPip** gate **RDS** **OPEN**

- CLOSE** **SwtPip** gate
- VERIFY** At encl 1392 **PBDC** light is **ON**
- VERIFY** MCR sees at Opto monitor **SwtPip** gate **RDS** **CLOSED**

- Check for acceptance of Test of South Wiring Tunnel Pipe Trench (SwtPip) gate**

1.15 Test of South Wiring Tunnel Hatch (SwtH) gate (Trap-door type gate)

- VERIFY** Hardware , Electrical at **SwtH** gate is **OK**

- PLACE** AGS in Res. Accs. (**RA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **RA**

- VERIFY** At encls 1378 (upper) and 1379 (lower, in the ring) **RA** light is **ON**
- VERIFY** At encls 1378 and 1379 **CA** light is **OFF**

- PLACE** AGS in Con. Accs. (**CA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel AGS** in **CA**

- VERIFY** At encls 1378 (upper) and 1379 (lower, in the ring) **RA** light is **OFF**
- VERIFY** At encls 1378 and 1379 **CA** light is **ON**

- VERIFY** At encl 1378 **GL** is **ON**
- VERIFY** At encl 1378 **Not Reset** light is **ON**

- OPEN** **SwtH** gate
- VERIFY** At encl 1378 **GL** is **OFF**
- CLOSE** **GS** **CLOSED**
- VERIFY** At encl 1378 **GL** is **ON**

- VERIFY** MCR sees at Opto monitor **SwtH** gate **RDS** **OPEN**
- CLOSE** **RDS**
- VERIFY** MCR sees at Opto monitor **SwtH** gate **RDS** **CLOSED**

- CLOSE** **SwtH** gate

- RESET** **SwtH** gate at encl 1378 with **715** key
- VERIFY** At encls 1378 and 1379 **Reset** lights are **ON**
- VERIFY** MCR sees at Opto monitor **SwtH** gate **RESET**

- OPEN** **SwtH** gate
- VERIFY** At encl 1378 **Not Reset** light is **ON**
- VERIFY** MCR sees at Opto monitor **SwtH** gate **NOT RESET**

- CLOSE** **SwtH** gate
- VERIFY** MCR sees at Opto monitor **SwtH** gate **RDS** **CLOSED**
- Check for acceptance of Test of South Wiring Tunnel Hatch (SwtH) gate**

1.16 Test of North Wiring Tunnel Hatch (NwtH) gate (Trap-door type gate)

- VERIFY** Hardware , Electrical at **NwtH** gate is **OK**
- PLACE** AGS in Res. Accs. (**RA**) from **MCR** with **693** key and **L/B** on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel** **AGS** in **RA**
- VERIFY** At encl 1376 **CA** light (**always powered**) is **ON**
- OPEN** **NwtH** gate
- CLOSE** **GS** **CLOSED**
- VERIFY** At encl 1376 **GL** is **ON**
- OPEN** **GS**
- VERIFY** At encl 1376 **GL** is **OFF**
- HOLD** Redundant gate microswitch (**RDS**) **CLOSED**
- VERIFY** MCR sees at Opto monitor **NwtH** gate **RDS** **CLOSED**
- OPEN** **RDS**
- VERIFY** MCR sees at Opto monitor **NwtH** gate **RDS** **OPEN**
- CLOSE** **NwtH** gate
- VERIFY** At encl 1376 **Not Reset** light is **ON**
- RESET** **NwtH** gate at encl 1376 with **715** key
- VERIFY** At encl 1376 **Reset** light is **ON**
- VERIFY** MCR sees at Opto monitor **NwtH** gate **RESET**
- OPEN** **NwtH** gate
- VERIFY** At encl 1376 **Not Reset** light is **ON**
- VERIFY** MCR sees at Opto monitor **NwtH** gate **NOT RESET**
- CLOSE** **NwtH** gate
- VERIFY** MCR sees at Opto monitor **NwtH** gate **RDS** **CLOSED**
- Check for acceptance of Test of North Wiring Tunnel Hatch (NwtH) gate**

1.17 Test of FEB Primary Gate 2 (FEB2) gate

- VERIFY** Hardware , Electrical at **FEB2** gate is **OK**
- PLACE** AGS in Res. Accs. (**RA**) from **MCR** with **693** key and Light/Button (**L/B**) on **Y-Panel**
- VERIFY** **MCR** sees at **Y-Panel** **AGS** in **RA**

<input type="checkbox"/>	VERIFY	At encl 3343CA light is	OFF
<input type="checkbox"/>	VERIFY	Attempt to open FEB2 gate with 256 key is	SUCCESSFUL
	HOLD	0 Deg Beam Barrier Connector (0⁰BBCr), Crash glass microswitch (CGS), gate m-switch (GS) and Latch switch (LS) .	CLOSED
<input type="checkbox"/>	VERIFY	At enclosure 3343 Crash glass light (CGL) <input type="checkbox"/> , Gate light (GL) <input type="checkbox"/> and Latch light (LL) <input type="checkbox"/> are	ON
	OPEN	0⁰BBCr	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	OFF
	CLOSE	0⁰BBCr	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	CGS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	OFF
	CLOSE	CGS and keep closed	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	GS	
<input type="checkbox"/>	VERIFY	At encl 3343 GL <input type="checkbox"/> and LL <input type="checkbox"/>	OFF
	CLOSE	GS and keep closed	CLOSED
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	OPEN	LS	
<input type="checkbox"/>	VERIFY	At encl 3343 LL	OFF
	CLOSE	LS	
<input type="checkbox"/>	VERIFY	CGL <input type="checkbox"/> , GL <input type="checkbox"/> and LL <input type="checkbox"/> are	ON
	RELEASE	GS and LS	
	HOLD	Redundant gate microswitch (RDS)	CLOSED
<input type="checkbox"/>	VERIFY	At encl 3343 Redundant gate light (RGL) is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor FEB2 gate RDS	CLOSED
	OPEN	RDS	
<input type="checkbox"/>	VERIFY	At encl 3343 RGL is	OFF
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor FEB2 gate RDS	OPEN
	CLOSE	FEB2 gate	
	PLACE	AGS in Con. Acs. (CA) from MCR with 693 key and L/B on Y-Panel	
<input type="checkbox"/>	VERIFY	MCR sees at Y-Panel AGS in	CA
<input type="checkbox"/>	VERIFY	At encl 3343 RA light is	OFF
<input type="checkbox"/>	VERIFY	At encl 3343 AGS Off light is	ON
<input type="checkbox"/>	VERIFY	At encl 3343 Not Reset light is	ON
	RESET	FEB2 gate at encl 3343 with BNL 9 key and right turn	
<input type="checkbox"/>	VERIFY	At encl 3343 Reset light is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor FEB2 gate	RESET
<input type="checkbox"/>	VERIFY	Attempt to open FEB2 gate at encl 3343 with BNL 9 key and left turn	SUCCESSFUL
<input type="checkbox"/>	VERIFY	At encl 3343 Not Reset light is	ON
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor FEB2 gate	NOT RESET
	CLOSE	FEB2 gate	
<input type="checkbox"/>	VERIFY	MCR sees at Opto monitor FEB2 gate RDS	CLOSED
<input type="checkbox"/>	Check for acceptance of Test of FEB2 gate		

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____