If you are using a printed copy of this procedure, and not the on-screen version, then you <u>MUST</u> make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are available by contacting the ESSHQ Procedures Coordinator, Bldg. 911A

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.8.h 8 O'Clock (PEER 17) ODH Tests

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

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials

Approved: ***Signature on File*** _____
Collider-Accelerator Department Chairman Date

V. Castillo

4.120.8.h 8 O'Clock (PEER 17) ODH 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 a visual check on Peer 17 Crash and Crash/ODH boxes following Table 1 below
√ = ok, x = problem

BOXES		Verify mechan condn. ok	Verify elec. condn. ok	Crash/ODH boxes only				Verify all X's corrected
				Division A		Division B		
CRASH	Crash/ODH			Lcd Rdg	Tp2 – Tp4 Vltg	Lcd Rdg	Tp2 – Tp4 Vltg	
7CB1		□	□	N/A	N/A	N/A	N/A	□
7CB2		□	□	N/A	N/A	N/A	N/A	□
	7CB3	□	□	%	V	%	V	□
	7CB4	□	□	%	V	%	V	□
	7CB5	□	□	%	V	%	V	□
	8CB1	□	□	%	V	%	V	□
	8CB2	□	□	%	V	%	V	□
	8CB3	□	□	%	V	%	V	□
8CB4		□	□	N/A	N/A	N/A	N/A	□
	8CB5	□	□	%	V	%	V	□
8XCB1		□	□	N/A	N/A	N/A	N/A	□
8XCB2		□	□	N/A	N/A	N/A	N/A	□
8XCB3		□	□	N/A	N/A	N/A	N/A	□
8XCB4		□	□	N/A	N/A	N/A	N/A	□
	8XCB5	□	□	%	V	%	V	□

Table 1 – Summary of visual check on Crash and Crash/ODH boxes in Peer 17

1.2 Verification of valid calibration of ODH sensors in Peer 17, following Table 2 below
√ = ok, x = problem

ODH sensor	Verify valid calibration	Record calibration date	Verify all x's corrected	Record new calibration date
7AS1	□	_____/_____/_____	□	_____/_____/_____
7AS2	□	_____/_____/_____	□	_____/_____/_____
8AS1	□	_____/_____/_____	□	_____/_____/_____
8AS2	□	_____/_____/_____	□	_____/_____/_____
8AS3	□	_____/_____/_____	□	_____/_____/_____
8AS4	□	_____/_____/_____	□	_____/_____/_____
8XAS3	□	_____/_____/_____	□	_____/_____/_____

Table 2 – Verification of valid calibration of ODH sensors in Peer 17

1.3 Test of ODH sensor 7AS1 in 7CB3

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **7AS1**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **7AS1 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS1 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **7CB3** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **7CB3** are	**SOUNDING**
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
	HALT	**Flow** of gas on **7AS1**	
	WAIT	For **7AS1** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **7CB3** are	**OFF**
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 7AS1**

1.4 Test of ODH sensor 7AS2 in 7CB4

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **7AS2**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **7AS2 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS2 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **7CB4** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **7CB4** are	**SOUNDING**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
	HALT	**Flow** of gas on **7AS2**	
	WAIT	For **7AS2** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **7CB4** are	**OFF**
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 7AS2**

1.5 Test of ODH sensor 7AS3 in 7CB5

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **7AS3**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **7AS3 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS3 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **7CB5** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **7CB5** are	**SOUNDING**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
	HALT	**Flow** of gas on **7AS3**	
	WAIT	For **7AS3** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **7CB5** are	**OFF**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 7AS3**

1.6 Test of ODH sensor 8AS1 in 8CB1

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **8AS1**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **8AS1 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8AS1 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **8CB1** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **8CB1** are	**SOUNDING**
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
	HALT	**Flow** of gas on **8AS1**	
	WAIT	For **8AS1** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **8CB1** are	**OFF**
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 8AS1**

1.7 Test of ODH sensor 8AS2 in 8CB2

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **8AS2**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **8AS2 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8AS2 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **8CB2** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **8CB2** are	**SOUNDING**
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
	HALT	**Flow** of gas on **8AS2**	
	WAIT	For **8AS2** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **8CB2** are	**OFF**
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 8AS2**

1.8 Test of ODH sensor 8AS3 in 8CB3

	PLACE	**Peer 17** in **Mode 8**	
☐	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **8AS3**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
☐	**VERIFY**	**MCR** sees **8AS3 Div A**	**TRIPPED**
☐	**VERIFY**	**MCR** sees **8AS3 Div B**	**TRIPPED**
☐	**VERIFY**	**Div A & B strobes** on **8CB3** are	**FLASHING**
☐	**VERIFY**	**Div A & B sonalerts** on **8CB3** are	**SOUNDING**
☐	**VERIFY**	Fan **8EF1** is	**ON**
☐	**VERIFY**	Vent **8AV3** is	**OPEN**
☐	**VERIFY**	Vent **8AV4** is	**OPEN**
	HALT	**Flow** of gas on **8AS3**	
	WAIT	For **8AS3** to clear (level ~ trip-level above)	
☐	**VERIFY**	**Div A & B strobes** and **sonalerts** on **8CB3** are	**OFF**
☐	**VERIFY**	Fan **8EF1** is	**OFF**
☐	**VERIFY**	Vent **8AV3** is	**CLOSED**
☐	**VERIFY**	Vent **8AV4** is	**CLOSED**
	RESET	**ODH** in **MCR**	
☐	**VERIFY**	**MCR** sees **ODH** as	**RESET**

☐ **Check for Test Acceptance of sensor 8AS3**

1.9 Test of ODH sensor 8AS4 in 8CB5

	PLACE	**Peer 17** in **Mode 8**	
☐	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **8AS4**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
☐	**VERIFY**	**MCR** sees **8AS4 Div A**	**TRIPPED**
☐	**VERIFY**	**MCR** sees **8AS4 Div B**	**TRIPPED**
☐	**VERIFY**	**Div A & B strobes** on **8CB5** are	**FLASHING**
☐	**VERIFY**	**Div A & B sonalerts** on **8CB5** are	**SOUNDING**
☐	**VERIFY**	Fan **9EF1** is	**ON**
☐	**VERIFY**	Vent **8AV4** is	**OPEN**
☐	**VERIFY**	Vent **9AV1** is	**OPEN**
	HALT	**Flow** of gas on **8AS4**	
	WAIT	For **8AS4** to clear (level ~ trip-level above)	
☐	**VERIFY**	**Div A & B strobes** and **sonalerts** on **8CB5** are	**OFF**
☐	**VERIFY**	Fan **9EF1** is	**OFF**
☐	**VERIFY**	Vent **8AV4** is	**CLOSED**
☐	**VERIFY**	Vent **9AV1** is	**CLOSED**
	RESET	**ODH** in **MCR**	
☐	**VERIFY**	**MCR** sees **ODH** as	**RESET**

☐ **Check for Test Acceptance of sensor 8AS4**

1.10 10-minute Activation test of sensor 7AS1 in sector 7

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	JUMPER	**Tp2 and Tp4** on the **Div A pcb in 7CB3**	
	JUMPER	**Tp2 and Tp4** on the **Div B pcb in 7CB3**	
□	**VERIFY**	**MCR** sees **Peer 17** is in	**MODE 2**
□	**VERIFY**	**MCR** sees **7AS1 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS1 Div B**	**TRIPPED**
□	**VERIFY**	Fan **7EF2** is **immediately**	**ON**
□	**VERIFY**	Vent **7AV1** is **immediately**	**OPEN**
□	**VERIFY**	Vent **7AV2** is **immediately**	**OPEN**
	AFTER	**~ 30 secs**	
	TURN	Bypass Switch **to** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~90secs) □	**STOP**
	TURN	Bypass Switch **from** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~30secs) □	**CONTINUE**
	BEGIN	**10-minute timer**	
	RECORD	**Volume of air-flow** at the inlet of fan **7EF2**	**_____ LFM**
		Target flow value (± 10%)	***2078 LFM***
□	**VERIFY**	Air flow at tell-tale of vent **7AV1** is	**ADEQUATE**
□	**VERIFY**	Air flow at tell-tale of vent **7AV2** is	**ADEQUATE**
	AFTER	**~ 10 minutes**	
	RECORD	**Duration of timer**	**_____ mins**
□	**VERIFY**	Fan **6EF1** is	**ON**
□	**VERIFY**	Fan **6EF2** is	**ON**
□	**VERIFY**	Fan **6EF3** is	**ON**
□	**VERIFY**	Fan **7EF1** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **6AV1** is	**OPEN**
□	**VERIFY**	Vent **6AV2** is	**OPEN**
□	**VERIFY**	Vent **6AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 7CB3**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 7CB3**	
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Fan **6EF1** is	**OFF**
□	**VERIFY**	Fan **6EF2** is	**OFF**
□	**VERIFY**	Fan **6EF3** is	**OFF**
□	**VERIFY**	Fan **7EF1** is	**OFF**

□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Vent **6AV1** is	**CLOSED**
□	**VERIFY**	Vent **6AV2** is	**CLOSED**
□	**VERIFY**	Vent **6AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 7AS1 on for > 10 minutes**

1.11 Test Activation of multiple sensors, 7AS2 and 7AS3, in sector 7

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	JUMPER	**Tp2 and Tp4** on the **Div A pcb in 7CB4**	
	JUMPER	**Tp2 and Tp4** on the **Div B pcb in 7CB4**	
	JUMPER	**Tp2 and Tp4** on the **Div A pcb in 7CB5**	
	JUMPER	**Tp2 and Tp4** on the **Div B pcb in 7CB5**	
□	**VERIFY**	**MCR** sees **Peer 17** is in	**MODE 2**
□	**VERIFY**	**MCR** sees **7AS2 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS2 Div B**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS3 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS3 Div B**	**TRIPPED**
□	**VERIFY**	Fan **6EF1** is	**ON**
□	**VERIFY**	Fan **6EF2** is	**ON**
□	**VERIFY**	Fan **6EF3** is	**ON**
□	**VERIFY**	Fan **7EF1** is	**ON**
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **6AV1** is	**OPEN**
□	**VERIFY**	Vent **6AV2** is	**OPEN**
□	**VERIFY**	Vent **6AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	
	AFTER	~ **30 secs**	
	TURN	Bypass Switch **to** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~90secs) □	**STOP**
	TURN	Bypass Switch **from** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~30secs) □	**CONTINUE**
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 7CB3**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 7CB3**	

	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 7CB4**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 7CB4**	
□	**VERIFY**	Fan **6EF1** is	**OFF**
□	**VERIFY**	Fan **6EF2** is	**OFF**
□	**VERIFY**	Fan **6EF3** is	**OFF**
□	**VERIFY**	Fan **7EF1** is	**OFF**
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Vent **6AV1** is	**CLOSED**
□	**VERIFY**	Vent **6AV2** is	**CLOSED**
□	**VERIFY**	Vent **6AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of Activation of multiple sensors 7AS2 and 7AS3 in sector 7**

1.12 10-minute Activation test of sensor 8AS1 in sector 8

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	JUMPER	**Tp2 and Tp4** on the **Div A pcb in 7CB5**	
	JUMPER	**Tp2 and Tp4** on the **Div B pcb in 7CB5**	
□	**VERIFY**	**MCR** sees **Peer 17** is in	**MODE 2**
□	**VERIFY**	**MCR** sees **7AS3 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **7AS3 Div B**	**TRIPPED**
□	**VERIFY**	Fan **8EF0** is **immediately**	**ON**
□	**VERIFY**	Vent **8AV0** is **immediately**	**OPEN**
□	**VERIFY**	Vent **8AV1** is **immediately**	**OPEN**
	AFTER	~ **30 secs**	
	TURN	Bypass Switch **to** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~90secs) □	**STOP**
	TURN	Bypass Switch **from** Bypass	
□	**VERIFY**	**Strobes** □, **Sonalerts** □ and **Fans** (after ~30secs) □	**CONTINUE**
	BEGIN	**10-minute timer**	
	RECORD	**Volume of air-flow** at the inlet of fan **8EF0**	**_____ LFM**
		Target flow value (± 10%)	***1473 LFM***
□	**VERIFY**	Air flow at tell-tale of vent **8AV0** is	**ADEQUATE**
□	**VERIFY**	Air flow at tell-tale of vent **8AV1** is	**ADEQUATE**
	AFTER	**~ 10 minutes**	
	RECORD	**Duration of timer**	**_____ mins**

□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Fan **9EF2** is	**ON**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV2** is	**OPEN**
□	**VERIFY**	Vent **9AV3** is	**OPEN**
□	**VERIFY**	Vent **9AV4** is	**OPEN**

REMOVE **Jumper** between **Tp2 and Tp4** on the **Div A pcb in 7CB5**
REMOVE **Jumper** between **Tp2 and Tp4** on the **Div B pcb in 7CB5**

□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**

□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Fan **9EF2** is	**OFF**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV2** is	**CLOSED**
□	**VERIFY**	Vent **9AV3** is	**CLOSED**
□	**VERIFY**	Vent **9AV4** is	**CLOSED**

RESET **ODH** in **MCR**
□ **VERIFY** **MCR** sees **ODH** as **RESET**

□ **Check for Test Acceptance of sensor 8AS1 on for > 10 minutes**

1.13 Test Activation of multiple sensors, 8AS2 and 8AS4, in sector 8

PLACE **Peer 17** in **Mode 8**
□ **VERIFY** **Peer 17** is in **Restricted Access** **MODE 8**

JUMPER **Tp2 and Tp4** on the **Div A pcb in 8CB2**
JUMPER **Tp2 and Tp4** on the **Div B pcb in 8CB2**
JUMPER **Tp2 and Tp4** on the **Div A pcb in 8CB5**
JUMPER **Tp2 and Tp4** on the **Div B pcb in 8CB5**

□	**VERIFY**	**MCR** sees **Peer 17** is in	**MODE 2**
□	**VERIFY**	**MCR** sees **8AS2 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8AS2 Div B**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8AS4 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8AS4 Div B**	**TRIPPED**

□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Fan **9EF2** is	**ON**

□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
□	**VERIFY**	Vent **9AV2** is	**OPEN**
□	**VERIFY**	Vent **9AV3** is	**OPEN**
□	**VERIFY**	Vent **9AV4** is	**OPEN**
	AFTER	~ **30 secs**	
	TURN	Bypass Switch **to** Bypass	
□	**VERIFY**	**Strobes** □**, Sonalerts** □ and **Fans** (after ~90secs) □	**STOP**
	TURN	Bypass Switch **from** Bypass	
□	**VERIFY**	**Strobes** □**, Sonalerts** □ and **Fans** (after ~30secs) □	**CONTINUE**
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 8CB2**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 8CB2**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 8CB5**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 8CB5**	
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Fan **9EF2** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**
□	**VERIFY**	Vent **9AV2** is	**CLOSED**
□	**VERIFY**	Vent **9AV3** is	**CLOSED**
□	**VERIFY**	Vent **9AV4** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of Activation of multiple sensors 8AS2 and 8AS4 in sector 8**

1.14 Test Manual fan ON/OFF controls in Alcove 7C

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button in **Alcove 7C**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**

□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
	RECORD	**Volume of air-flow** at the inlet of fan **7EF3**	**_____ LFM**
		Target flow value (± 10%)	***1473 LFM***
□	**VERIFY**	**Air flow** at tell-tale of vent **7AV3** is	**ADEQUATE**
	PRESS	Fan **OFF** button in **Alcove 7C**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan-ON/OFF controls in Alcove 7C**

1.15 Test Manual fan-ON/OFF controls in Alcove 9A

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button in **Alcove 9A**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
	RECORD	**Volume of air-flow** at the inlet of fan **8EF1**	**_____ LFM**
		Target flow value (± 10%)	***1592 LFM***
	RECORD	**Volume of air-flow** at the inlet of fan **9EF1**	**_____ LFM**
		Target flow value (± 10%)	***1592 LFM***
□	**VERIFY**	Air flow at tell-tale of vent **8AV2** is	**ADEQUATE**
□	**VERIFY**	Air flow at tell-tale of vent **8AV3** is	**ADEQUATE**
□	**VERIFY**	Air flow at tell-tale of vent **8AV4** is	**ADEQUATE**
□	**VERIFY**	Air flow at tell-tale of vent **9AV1** is	**ADEQUATE**
	PRESS	Fan **OFF** button in **Alcove 9A**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**

□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan-ON/OFF controls in Alcove 9A**

1.16 Test Manual fan-ON/OFF controls in Alcove 9B

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button in **Alcove 9B**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
	PRESS	Fan **OFF** button in **Alcove 9B**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan-ON/OFF controls in Alcove 9B**

1.17 Test Manual fan OFF controls in MCR

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button in **Alcove 7C**	
	PRESS	Fan **ON** button in **Alcove 9A**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**

□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
	PRESS	Fan **OFF** button in **MCR**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan OFF controls in MCR**

1.18 Test Manual fan-ON/OFF controls at gate 7GE1

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button at gate **7GE1**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
	PRESS	Fan **OFF** button at gate **7GE1**	

	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan ON/OFF controls at gate 7GE1**

1.19 Test MCR reset of Manual fan-ON/OFF controls at gate 7GE1

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button at gate **7GE1**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **7EF2** is	**ON**
□	**VERIFY**	Fan **7EF3** is	**ON**
□	**VERIFY**	Vent **7AV1** is	**OPEN**
□	**VERIFY**	Vent **7AV2** is	**OPEN**
□	**VERIFY**	Vent **7AV3** is	**OPEN**
□	**VERIFY**	Vent **7AV4** is	**OPEN**
□	**VERIFY**	Vent **7AV5** is	**OPEN**
	PRESS	Fan **OFF** button at **MCR**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **7EF2** is	**OFF**
□	**VERIFY**	Fan **7EF3** is	**OFF**
□	**VERIFY**	Vent **7AV1** is	**CLOSED**
□	**VERIFY**	Vent **7AV2** is	**CLOSED**
□	**VERIFY**	Vent **7AV3** is	**CLOSED**
□	**VERIFY**	Vent **7AV4** is	**CLOSED**
□	**VERIFY**	Vent **7AV5** is	**CLOSED**

□ **Check for Test Acceptance MCR reset of Manual fan ON/OFF controls at gate 7GE1**

1.20 Test Manual fan-ON/OFF controls at gate 8GE2

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button at gate **8GE2**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
	PRESS	Fan **OFF** button at gate **8GE2**	
	AFTER	**90 secs** from **ON** command	
□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**

□ **Check for Test Acceptance of Manual fan ON/OFF controls at gate 8GE2**

1.21 Test MCR reset of Manual fan-ON/OFF controls at gate 8GE2

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	PRESS	Fan **ON** button at gate **8GE2**	
	BEGIN	**90-sec timer**	
□	**VERIFY**	Fan **8EF0** is	**ON**
□	**VERIFY**	Fan **8EF1** is	**ON**
□	**VERIFY**	Fan **9EF1** is	**ON**
□	**VERIFY**	Vent **8AV0** is	**OPEN**
□	**VERIFY**	Vent **8AV1** is	**OPEN**
□	**VERIFY**	Vent **8AV2** is	**OPEN**
□	**VERIFY**	Vent **8AV3** is	**OPEN**
□	**VERIFY**	Vent **8AV4** is	**OPEN**
□	**VERIFY**	Vent **9AV1** is	**OPEN**
	PRESS	Fan **OFF** button at **MCR**	
	AFTER	**90 secs** from **ON** command	

□	**VERIFY**	Fan **8EF0** is	**OFF**
□	**VERIFY**	Fan **8EF1** is	**OFF**
□	**VERIFY**	Fan **9EF1** is	**OFF**
□	**VERIFY**	Vent **8AV0** is	**CLOSED**
□	**VERIFY**	Vent **8AV1** is	**CLOSED**
□	**VERIFY**	Vent **8AV2** is	**CLOSED**
□	**VERIFY**	Vent **8AV3** is	**CLOSED**
□	**VERIFY**	Vent **8AV4** is	**CLOSED**
□	**VERIFY**	Vent **9AV1** is	**CLOSED**

□ **Check for Test Acceptance MCR reset of Manual fan ON/OFF controls at gate 8GE2**

1.22 Test of ODH sensor 8XAS3 in 8XCB4 at 1008B

	PLACE	**Peer 17** in **Mode 8**	
□	**VERIFY**	**Peer 17** is in **Restricted Access**	**MODE 8**
	FLOW	**Helium (or Nitrogen)** gas across **8XAS3**	
	RECORD	**Oxygen** trip level for **Div A**	**_____ %**
	RECORD	**Oxygen** trip level for **Div B**	**_____ %**
□	**VERIFY**	**MCR** sees **8XAS3 Div A**	**TRIPPED**
□	**VERIFY**	**MCR** sees **8XAS3 Div B**	**TRIPPED**
□	**VERIFY**	**Div A & B strobes** on **6XCB4** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **6XCB4** are	**SOUNDING**
□	**VERIFY**	Fans in **1008B** are	**ON**
□	**VERIFY**	Vent **1008B** is	**OPEN**
	HALT	**Flow** of gas on **8XAS3**	
	WAIT	For **8XAS3** to clear (level ~ trip-level above)	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **7CB3** are	**OFF**
□	**VERIFY**	Fan in **1008B** are	**OFF**
□	**VERIFY**	Vent **1008B** is	**CLOSED**
	JUMPER	**Tp2 and Tp4** on the **Div A pcb in 6XCB4**	
	JUMPER	**Tp2 and Tp4** on the **Div B pcb in 6XCB4**	
□	**VERIFY**	**Div A & B strobes** on **6XCB4** are	**FLASHING**
□	**VERIFY**	**Div A & B sonalerts** on **6XCB4** are	**SOUNDING**
□	**VERIFY**	Fans in **1008B** are	**ON**
□	**VERIFY**	Vent **1008B** is	**OPEN**
	TURN	Bypass Switch **to** Bypass	
□	**VERIFY**	**Strobes** □ and **Sonalerts** □	**STOP**
	TURN	Bypass Switch **from** Bypass	
□	**VERIFY**	**Strobes** □ and **Sonalerts** □	**CONTINUE**
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div A pcb in 6XCB4**	
	REMOVE	**Jumper** between **Tp2 and Tp4** on the **Div B pcb in 6XCB4**	
□	**VERIFY**	**Div A & B strobes** and **sonalerts** on **7CB3** are	**OFF**
□	**VERIFY**	Fan in **1008B** are	**OFF**
□	**VERIFY**	Vent **1008B** is	**CLOSED**
	RESET	**ODH** in **MCR**	
□	**VERIFY**	**MCR** sees **ODH** as	**RESET**

□ **Check for Test Acceptance of sensor 8XAS3**

1.23 Summary of air-flow at fan intakes and vents in sectors 7 and 8

	RECORD	**Volume of air-flow** at the inlet of fan **7EF2**	**_____ LFM**
		Target flow value (±10%)	***2078 LFM***
☐	**VERIFY**	Air flow at tell-tale of vent **7AV1** is	**ADEQUATE**
	RECORD	**Volume of air-flow** at the inlet of fan **7EF3**	**_____ LFM**
		Target flow value (±10%)	***1473 LFM***
☐	**VERIFY**	Air flow at tell-tale of vent **7AV2** is	**ADEQUATE**
☐	**VERIFY**	Air flow at tell-tale of vent **7AV3** is	**ADEQUATE**
	RECORD	**Volume of air-flow** at the inlet of fan **8EF0**	**_____ LFM**
		Target flow value (±10%)	***1473 LFM***
☐	**VERIFY**	Air flow at tell-tale of vent **8AV0** is	**ADEQUATE**
	RECORD	**Volume of air-flow** at the inlet of fan **8EF1**	**_____ LFM**
		Target flow value (±10%)	***1592 LFM***
☐	**VERIFY**	Air flow at tell-tale of vent **8AV1** is	**ADEQUATE**
	RECORD	**Volume of air-flow** at the inlet of fan **9EF1**	**_____ LFM**
		Target flow value (±10%)	***1592 LFM***
☐	**VERIFY**	Air flow at tell-tale of vent **8AV2** is	**ADEQUATE**
☐	**VERIFY**	Air flow at tell-tale of vent **8AV3** is	**ADEQUATE**
☐	**VERIFY**	Air flow at tell-tale of vent **8AV4** is	**ADEQUATE**
☐	**VERIFY**	Air flow at tell-tale of vent **9AV1** is	**ADEQUATE**

☐ **Check for Acceptance of Summary of air-flow at fan intakes and vents in sectors 7 and 8**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: _____/____/_____

TTL: Sign for completion of final testing: _____

Date: _____/_____/_____