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C-A OPERATIONS PROCEDURES MANUAL

4.120.102.c NASA Science Research Laboratory (NSRL)
(Peer 27) Crash Tests

Attachment

C-A-OPM Procedures in which this Attachment is used.		
4.120.102		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
_____	_____	_____	_____

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

V. Castillo

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 Test of Zone NSRL-Z1 Crash Systems in Restricted Access, Mode 8

- CONDUCT** Visual check on Crash systems, following columns 1- 2, Table 1
- VERIFY** In column 3, Table 1, all visual-check problems are **CORRECTED**
- PLACE** Peer 27 in **Restricted Access (RA), Mode 8**
- VERIFY** Peer 27 is in **RA** **MODE 8**
- TEST** **Zone NSRL-Z1** Crash systems following Table 1, columns 4-10, below.

Crash systems	Visual check √=o.k. x=pblm	Verify all x's corr.	Pull crash cord from far end	Verify crash at MCR	Verify remain in Mode 8	Rearm crash device	Reset crash at MCR	Verify crash reset at MCR	Go to next test
1CO1` (P/B)		<input type="checkbox"/>	Press	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
1CO2		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
1CO3		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	

Table 1 – Test of Zone NSRL-Z1 Crash Systems in Restricted Access, Mode 8

- Check for acceptance of **Test of Zone NSRL-Z1 Crash Systems in Restricted Access, Mode 8**

1.2 Test of Zone NSRL-Z1 Crash Systems in Controlled Access, Mode 16

- PLACE** Peer 27 in **Controlled Access (CA), Mode 16**
- VERIFY** Peer 27 is in **CA** **MODE 16**
- FORCE** **Sweep of Zone NSRL-Z1**
- VERIFY** **MCR sees Zone NSRL-Z1** **SWEPT**
- TEST** **Zone NSRL-Z1** Crash systems following Table 2, below.

Crash systems	Pull crash cord from far end	Verify crash at MCR	Verify remain in Mode 16	Verify NSRL-Z1 loses sweep	Rearm and Reset crash at MCR	Verify crash reset at MCR	Force sweep of NSRL-Z1	Verify NSRL-Z1 is swept	Go to next test
1CO1` (P/B)	Press	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
1CO2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
1CO3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Table 2 – Test of Zone NSRL-Z1 Crash Systems in Controlled Access, Mode 16

- Check for acceptance of **Test of Zone NSRL-Z1 Crash Systems in Controlled Access, Mode 16**

1.3 Test of Zone NSRL-Z2 Crash Systems in Restricted Access, Mode 8

- CONDUCT** Visual check on Crash systems, following columns 1- 2, Table 1
- VERIFY** In column 3, Table 1, all visual-check problems are **CORRECTED**
- PLACE** Peer 27 in **Restricted Access (RA), Mode 8**
- VERIFY** Peer 27 is in **RA** **MODE 8**
- TEST** **Zone NSRL-Z2** Crash systems following Table 1, columns 4-10, below.

Crash systems	Visual check √=o.k. x=pblm	Verify all x's corr.	Pull crash cord from far end	Verify crash at MCR	Verify remain in Mode 8	Rearm crash device	Reset crash at MCR	Verify crash reset at MCR	Go to next test
2CO1		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
2CO2		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
2CO3		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	

Table 3 – Test of Zone NSRL-Z2 Crash Systems in Restricted Access, Mode 8

- Check for acceptance of Test of Zone NSRL-Z2 Crash Systems in Restricted Access, Mode 8

1.4 Test of Zone NSRL-Z2 Crash Systems in Controlled Access, Mode 18

- PLACE** Peer 27 in **Controlled Access (CA), Mode 16**
- VERIFY** Peer 27 is in **CA** **MODE 16**
- FORCE** Sweep of Zone NSRL-Z2 and Zone NSRL-Z3
- VERIFY** MCR sees Zone NSRL-Z2 and Zone NSRL-Z3 **SWEPT**
- PLACE** Peer 27 in **Controlled Access (CA), Mode 18**
- VERIFY** Peer 27 is in **CA** **MODE 18**
- TEST** **Zone NSRL-Z2** Crash systems following Table 2, below.

Crash systems	Pull crash cord from far end	Verify crash at MCR	Verify goes to Mode 2	Verify NSRL-Z2 loses sweep	Rearm and Reset crash at MCR	Verify crash reset at MCR	Force sweep of NSRL-Z2	Verify NSRL-Z2 is swept	Go to Mode 18	Go to next test
2CO1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
2CO2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
2CO3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		

Table 4 – Test of Zone NSRL-Z2 Crash Systems in Controlled Access, Mode 18

- Check for acceptance of Test of Zone NSRL-Z2 Crash Systems in Controlled Access, Mode 16

1.5 Test of Zone NSRL-Z3 Crash Systems in Restricted Access, Mode 8

- CONDUCT** Visual check on Crash systems, following columns 1- 2, Table 1
- VERIFY** In column 3, Table 1, all visual-check problems are **CORRECTED**
- PLACE** Peer 27 in **Restricted Access (RA), Mode 8**
- VERIFY** Peer 27 is in **RA** **MODE 8**
- TEST** **Zone NSRL-Z3** Crash systems following Table 1, columns 4-10, below.

Crash systems	Visual check √=o.k. x=pblm	Verify all x's corr.	Pull crash cord from far end	Verify crash at MCR	Verify remain in Mode 8	Rearm crash device	Reset crash at MCR	Verify crash reset at MCR	End of test
3CO1'		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	

Table 5 – Test of Zone NSRL-Z3 Crash Systems in Restricted Access, Mode 8

- Check for acceptance of Test of Zone NSRL-Z3 Crash Systems in Restricted Access, Mode 8

1.6 Test of Zone NSRL-Z3 Crash Systems in Controlled Access, Mode 17

- PLACE** Peer 27 in **Controlled Access (CA), Mode 16**
- VERIFY** Peer 27 is in **CA** **MODE 16**
- FORCE** Sweep of Zone **NSRL-Z3**
- VERIFY** **MCR** sees **Zone NSRL-Z3** **SWEPT**
- PLACE** Peer 27 in **Controlled Access (CA), Mode 17**
- VERIFY** Peer 27 is in **CA** **MODE 17**
- TEST** **Zone NSRL-Z3** Crash systems following Table 2, below.

Crash systems	Pull crash cord from far end	Verify crash at MCR	Verify system goes to Mode 2	Verify NSRL-Z3 loses sweep	Rearm and Reset crash at MCR	Verify crash reset at MCR	Force sweep of NSRL-Z3	Verify NSRL-Z3 is swept	Go to Mode 16	End of test
3CO1'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		

Table 6 – Test of Zone NSRL-Z3 Crash Systems in Controlled Access, Mode 17

- Check for acceptance of Test of Zone NSRL-Z3 Crash Systems in Controlled Access, Mode 17

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: ____/____/____

TTL: Sign for completion of final testing: _____

Date: ____/____/____