

Brookhaven National Laboratory National Synchrotron Light Source		Number: LS-PPS-0024	Revision: B
		Effective: 6/13/02	Page 1 of 1
Subject: X-Ray Ring Interlock Chain Isolation Test			
Prepared/ Approved By: M. Buckley	Approved By: S.Buda		

*Approval signatures on file with master copy.

[Revision/Periodic Review Log](#)

Test Reason:	Test Result:	<input type="checkbox"/> Passed	<input type="checkbox"/> Failed
	Test Type:	<input type="checkbox"/> Full	<input type="checkbox"/> Partial
Test Date:	Start Time:	Finish Time:	
Tester 1:	Assistant 1:		

Scope: This test must be performed after any wiring work has been completed on any part of the Yellow Distribution Boxes for the X-Ray beamline or X-Ray ring personnel interlock system.

Preparation:

A multimeter and a 5K-ohm resistor are needed for the testing. The relays associated with the test procedure are located in the back of the X-Ray Security SR100 relay rack in the X-Ray ring equipment area.

1. RIA and RIB faults must be satisfied at SR100. Reset if necessary. _____
 2. The DC absolute voltage between terminal 10 of RIA1 and ground is less than 0.2 volts. _____
 3. The DC absolute voltage between terminal 10 of RIB1 and ground is less than 0.2 volts. _____
 4. The DC absolute voltage between terminal 10 of RIA1 and terminal 10 of RIB1 is less than 0.1 volts. _____
 5. Repeat tests 2 through 4 with the meter set on AC voltage. (Load meter with 5K ohms to reduce effect of high impedance capacitive coupling).
 - RIA1 to ground < 5V RMS _____
 - RIB1 to ground < 5V RMS _____
 - RIA1 to RIB1 < 1 V RMS _____
 6. Repeat tests 2 through 4 with the meter set on Ohms. In each case the resistance is greater than one Mega Ohm.
 - RIA1 to ground _____
 - RIB1 to ground _____
 - RIA1 to RIA2 _____
- * * *