Fermilab

LAPD @ PC4 ODH SYSTEM
TEST PROCEDURE V2.0

OVERVIEW: This Procedure covers testing of the ODH monitor system after installation and for future tests that may be required. This test will check that the heads when sensing an oxygen deficiency will place the system in alarm, the appropriate horns and strobe lights will be activated and a FIRUS message will be sent to the communications center.

PREPARATION : The test should be conducted when the minimum amount of personnel are working in the area to reduce disruptive effect of blaring sirens and flashing strobes.

A team of two people equipped with radios and a test procedure would be adequate to conduct an efficient test. The test coordinator keeps the master record of the test.

Test Coordinator Record data
Tester #1 Disconnect each ODH Head and Monitor zone horn and strobe

PROCEDURE: LAPD at PC4 BUILDING HIBAY

___✓ Call the communications center (x3414) and notify the operator that a test of the LAPD at PC4 ODH system will be conducted and that you will need a printout of the FIRUS alarms they will receive during the test.

___✓ Call the Main Control Room(MCR) (x3721) and notify the operator that a test of the LAPD at PC4 ODH system will be conducted and they will receive FIRUS alarms during the test.

___✓ Set the HIBAY ODH ventilation fan 1 and Fan 2 to auto mode. These fans should be off.

FIRUS TAG NAMES: 05. PC4-ODH
05. PC4-ODH-TRBL

✓ Check the team is in place and ready.

TEST HEAD # 1

___✓___ Horn/Strobe activated in HIBAY
___✓___ Horn/Strobe activated in Entryway
___✓___ HIBAY Ventilation Fan 1 Start and Run
___✓___ HIBAY Ventilation Fan 2 Start and Run
___✓___ iFIX HMI ODH picture displays ODH Alarm
___✓___ FIRUS system received message. TIME: 07:45
___✓___ ODH chassis display is correct 19.4 % TRIPED AT

TEST HEAD # 2

___✓___ Horn/Strobe activated in HIBAY
___✓___ Horn/Strobe activated in Entryway
___✓___ HIBAY Ventilation Fan 1 Start and Run
___✓___ HIBAY Ventilation Fan 2 Start and Run
___✓___ iFIX HMI ODH picture displays ODH Alarm
___✓___ FIRUS system received message. TIME: 07:50
___✓___ ODH chassis display is correct 18.7 % TRIPED AT
19.3

TEST ODH TROUBLE

___✓___ Disconnect DC supply Fuse in ODH Control Box
___✓___ ODH chassis display is correct 20.8 %
___✓___ FIRUS system received message. TIME: 07:51
___✓___ iFIX HMI ODH picture displays ODH Trouble

AFTER TEST IS COMPLETED:

___✓___ Check that the ODH system is reset and ready to return to normal operation.

___✓___ Call the communications center (x3414) and notify the operator the test of the LAPD at PC4 ODH system has been completed and to respond to any further alarms. Pick up a copy of the FIRUS alarm printout from the communications center and record the times in the master test.

___✓___ Call the Main Control Room(MCR) (x3721) and notify the operator the test of the LAPD at PC4 ODH system has been completed and to respond to any further alarms.

___✓___ Generate a copy of the master test for any logs and the safety review panel.

SUPERVISOR OF TEST TIMOTHY J. MARTIN T/2 nA DATE: 12-12-12

TEST FORM---Dan Markley 12/11/2012

FIRUS Log for 12/12/2012

05.PC4-ODH	Utility	IN-ALARM	12/12/12 7:44	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	12/12/12 7:45	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	12/12/12 7:46	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	12/12/12 7:46	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	12/12/12 7:48	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	12/12/12 7:48	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	12/12/12 7:50	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	12/12/12 7:50	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	IN-ALARM	12/12/12 7:51	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	NORMAL	12/12/12 7:52	Proton Center Pit	High