Fermilab

LAPD @ PC4 ODH SYSTEM
TEST PROCEDURE

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 TC 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 to auto mode. This fan 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 Start and Run
✓ iFIX HMI ODH picture displays ODH Alarm
✓ FIRUS system received message. TIME: 07:12
✓ ODH chassis display is correct 19.3 %

TEST HEAD # 2

✓ Horn/Strobe activated in HIBAY
✓ Horn/Strobe activated in Entryway
✓ HIBAY Ventilation Fan Start and Run
✓ iFIX HMI ODH picture displays ODH Alarm
✓ FIRUS system received message. TIME: 07:14
✓ ODH chassis display is correct 19.6 %

TEST ODH TROUBLE

✓ Disconnect DC supply Fuse in ODH Control Box
✓ ODH chassis display is correct 0 %
✓ FIRUS system received message. TIME: 07:15
✓ 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 [signature] DATE: 9-5-12

TEST FORM---Dan Markley 7/22/2011

FIRUS Message file from FIRUS logs
Sep 5. 2012

05.PC4-ODH TRBL	Trouble	IN-ALARM	9/5/2012 7:04	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	NORMAL	9/5/2012 7:07	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	9/5/2012 7:11	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	9/5/2012 7:11	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	9/5/2012 7:13	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	9/5/2012 7:13	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	IN-ALARM	9/5/2012 7:14	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	NORMAL	9/5/2012 7:15	Proton Center Pit	High