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   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: _0918_
✓ ODH chassis display is correct _<15%_ %

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: _0920_
✓ ODH chassis display is correct _<19%_ %

TEST ODH TROUBLE

✓ Disconnect DC supply Fuse in ODH Control Box
✓ ODH chassis display is correct _N/A_ %
✓ FIRUS system received message. TIME: _0922_
✓ 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 _Jeff Pat_   DATE: _3-5-12_

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

04.WH15-W-SPERS	Emergency	IN-ALARM	3/5/2012 8:01	Wilson Hall 15 West	ALRM
04.WH15-W-SPERS	Emergency	NORMAL	3/5/2012 8:01	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:01	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:01	Wilson Hall 15 West	ALRM
07.MI60-PL	Trouble	IN-ALARM	3/5/2012 8:08	MAIN INJECTOR MI-60	TRBL
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:13	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:13	Wilson Hall 15 West	ALRM
04.WH15-W-SPERS	Emergency	IN-ALARM	3/5/2012 8:15	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:16	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:16	Wilson Hall 15 West	ALRM
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 8:26	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 8:26	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 8:26	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 8:27	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 8:27	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 8:28	Proton Center Pit	High
02.CDF-PL	Trouble	IN-ALARM	3/5/2012 8:30	CDF ASSEMBLY BLDG	TRBL
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 8:32	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 8:32	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 8:39	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 8:39	Proton Center Pit	High
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:43	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:43	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:45	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:45	Wilson Hall 15 West	ALRM
05.PC4-ODH TRBL	Trouble	IN-ALARM	3/5/2012 8:47	Proton Center Pit	High
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:54	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	NORMAL	3/5/2012 8:54	Wilson Hall 15 West	ALRM
04.WH15-S-XOVER	Emergency	IN-ALARM	3/5/2012 8:56	Wilson Hall 15 West	ALRM
05.PC4-ODH TRBL	Trouble	NORMAL	3/5/2012 9:00	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 9:01	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 9:01	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	IN-ALARM	3/5/2012 9:04	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	NORMAL	3/5/2012 9:09	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 9:10	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 9:11	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 9:16	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 9:17	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 9:18	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 9:19	Proton Center Pit	High
05.PC4-ODH	Utility	IN-ALARM	3/5/2012 9:20	Proton Center Pit	High
05.PC4-ODH	Utility	NORMAL	3/5/2012 9:20	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	IN-ALARM	3/5/2012 9:21	Proton Center Pit	High
05.PC4-ODH TRBL	Trouble	NORMAL	3/5/2012 9:22	Proton Center Pit	High