

ACCELERATOR DIVISION DEPARTMENTAL PROCEDURE

ACCELERATOR OPERATIONS DEPARTMENT

ADDP-OP-0014

ODH INVESTIGATION RESPONSE PROCEDURE

Field

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REVIEW AND CONCURRENCE RECORD

REVIEWED BY Raymond Lewis DATE 5-19-2023
Raymond Lewis
ES&H Section Acting AD Division Safety Officer

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Author	Description of Change	Revision Date
Joe Compton	Added AC Master key to section 3.1.1 Changed the procedure to request Fermi Fire Department response to an ODH alarm. Operations Department personnel do not enter the area until determined that the alarm is not real by the Fire Department. Added Cryo Coordinator to section 3.1.5. Changed flow chart to include changes above. Changed 3.1.2 to report to the Incident Commander.	5/19/2023
Joe Compton	Updated for the required procedure format. Added Attachment 1 flow chart.	4/13/2023

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ATTACHMENT 1: ODH INVESTIGATION RESPONSE PROCEDURE – FIELD
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1.0 PURPOSE AND SCOPE

The purpose of this Accelerator Division Departmental Procedure (ADDP) is to establish and define the Fermilab Accelerator Division Operations Department Main Control Room (MCR) field response to a report of a possible Oxygen Deficient Atmosphere (ODH) condition.

2.0 RESPONSIBILITIES

- 2.1 Crew chief or designee shall initiate response and select a field team.
- 2.2 Operators on the field team shall follow the following included instructions.

3.0 INSTRUCTIONS

- 3.1 Upon report of a possible ODH condition, the MCR Field Team shall follow the following instructions.
 - 3.1.1 Field Team is selected by the Crew Chief and responds with a hand held radio, oxygen monitors, hearing protection, and AC3 and AC Master keys.
 - 3.1.2 Report to the Incident Commander when they arrive on scene.
- NOTE: Do not enter the affected area.**
- 3.1.3 Ensure the MCR has contacted the Security Operations Center to request Fermilab Fire Department response to an ODH alarm.
 - 3.1.4 Upon Fire Department arrival:
 - a. Inform and assist the Incident Commander.
 - b. Request the Fire Department to check the oxygen concentration in the area to determine if the alarm is real.
 - i. If the alarm is real, inform the MCR and initiate procedure Cryogenic Emergency Field ADDP-OP-0004.
 - ii. If the alarm is false and the oxygen levels are normal, inform the MCR.
 - iii. Proceed with the following sections of this procedure.

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Note: If an oxygen monitoring chassis loses power, each of its active monitoring channels will go into alarm causing a false alarm.

3.1.5 Determine if the stationary monitoring equipment has failed.

- a. If yes:
 - i. Determine the failure mode if possible. Consult with experts as needed.
 - ii. Inspect and determine which oxygen head may need to be replaced. Once it is determined, return to obtain the proper oxygen head to replace.
 - iii. Equipment repaired or replaced.
- b. If no: consult with the Cryo Coordinator and/or an expert.

NOTE: If at any time a personal oxygen monitor alarms at or below 19.5%, evacuate the area and report a “Cryogenic Emergency” to the Security Operations Center at x3131 (630-840-3131 by cell phone) and initiate procedure Cryogenic Emergency Field ADDP-OP-0004. Notify the MCR.

Note: Attachment 1: ODH Investigation Response Procedure - Field contains a flow chart listing the steps of this procedure and is attached to this procedure.

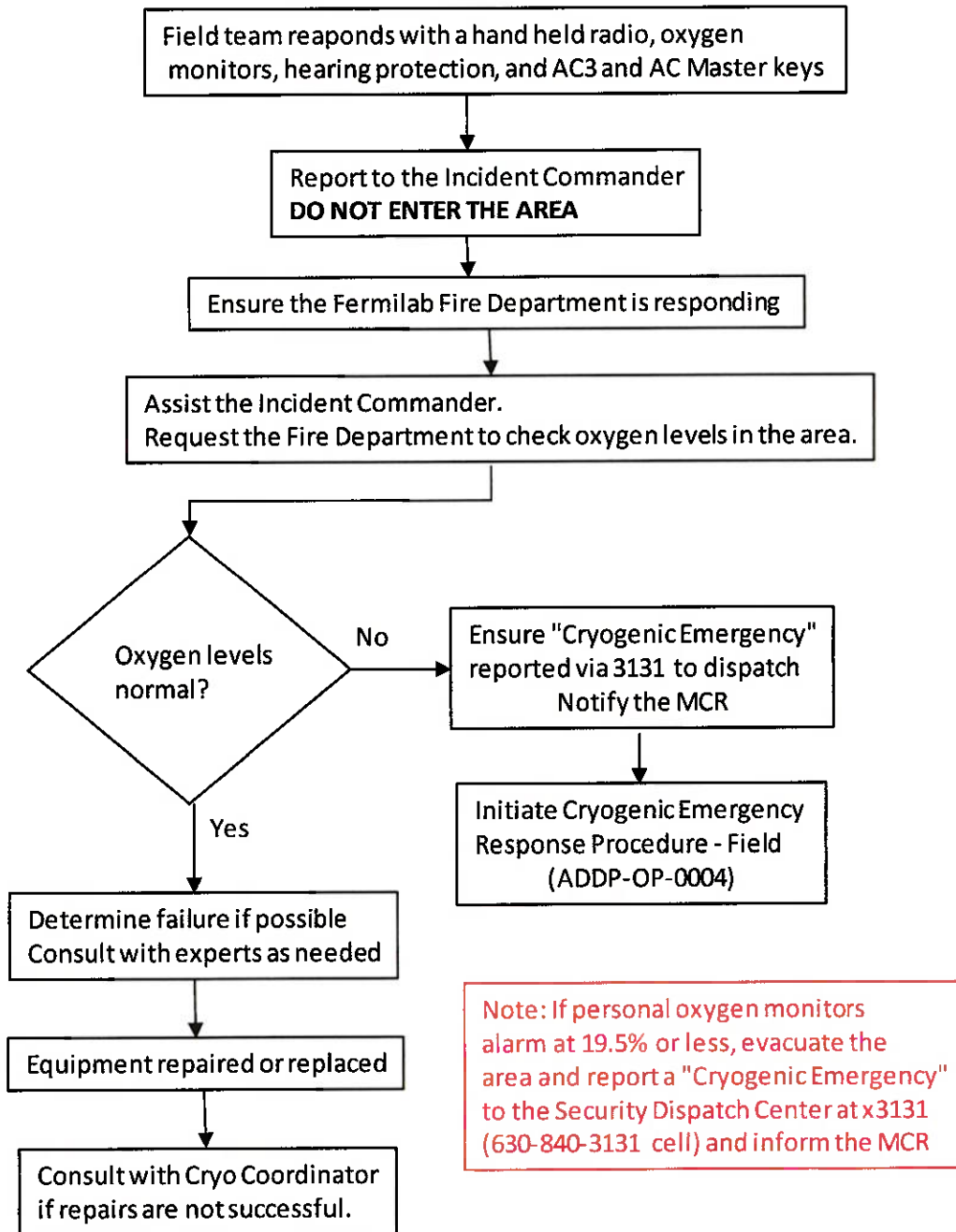
4.0 DISTRIBUTION

- 4.1 An electronic controlled copy of this procedure is maintained on the AD Operations website at: <https://operations.fnal.gov/ops/addp.html>.

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ODH Investigation Response Procedure - Field



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