

MANAGEMENT ASSESSMENT REPORT

Management Assessment Number	Management Assessment Title	Assessment Date(s)
HEP-FY08-MA-003	Laboratory Exhaust Hoods	October 09, 2008
Organization	Assessed Program / Activity	Responsible Manager
High Energy Physics Division (HEPD)	calibration information and review for excess chemical storage use in Lab hoods	H. Weerts
Team Leader	Team Member(s)	ESH/QA Representative
L. Reed	G. Drake, W. Gai, V. Guarino, H. Spinka	N. Guirguis

Executive Summary

The assessment was completed October 09, 2008 in fulfillment with Argonne National Laboratory, Quality Assurance Procedures Manual Section 3.1, Management Assessment requirements and the High Energy Physics Division due diligence to proactively review operations for compliance with applicable Lab regulations and DOE directives. Laboratory operations that may result in the release of undesirable or hazardous gases, vapors, mists, airborne particles, odor, or heat must be carried out in an approved Laboratory chemical hood or be provided with other approved local exhaust.

Currently there are 6 standard use Laboratory chemical hoods within the High Energy Physics Division:

Building 362/E116-1, the average velocity recorded is 130 FPM (feet per minute) @ 16 inches and last calibrated February, 2008. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. In addition, an eyewash station inside the lab was located in close proximity and last tested 10/06/08, and there were no signs of chemical being stored inside the hood.

Building 362/F132-1, the average velocity recorded is 100 FPM (feet per minute) @ 16 inches and last calibrated February, 2006. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. In addition, an eyewash station inside the lab was located in close proximity and last tested 10/07/08, and there were no signs of chemical being stored inside the hood. Furthermore, the hood has been tagged out of service.

Building 362/F224-1, the average velocity recorded is 100 FPM (feet per minute) @ 16 inches and last calibrated March, 2008. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. Additionally, there were no signs of chemical being stored inside the hood and no eyewash station inside the lab.

Building 362/C256-1, the average velocity recorded is 104 FPM (feet per minute) @ 16 inches and last calibrated September, 2008. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. In addition, an eyewash station inside the lab was located in close proximity and last tested 10/02/08, and there were no signs of chemical being stored inside the hood. However, to further ensure safety and in conjunction with Laboratory hood ventilation practices set forth in "Prudent Practices in the Laboratory," National Research Council, current edition, the lab hood was being used to dispose minute vapors from empty acetone and methanol pint size containers before their final disposition as regular Lab waste.

Building 362/E248-1, the average velocity recorded is 150 FPM (feet per minute) @ 16 inches and last calibrated February, 2008. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. Additionally, there were no signs of chemical being stored inside the hood and no eyewash station inside the lab.

Building 366-1, the average velocity recorded is 450 FPM (feet per minute) @ 16 inches and last calibrated August, 2007. The hood was equipped with assessible eye protection and sufficiently labeled, PPE, eye protection required. In addition, an eyewash station inside the Building was located in close proximity and last tested 10/06/08, and there were no signs of chemical being stored inside the hood.

At the conclusion of the assessment all Laboratory chemical hoods within the HEP Division met performance criteria and there were no issues identified for corrective actions.

Purpose

Evaluate the condition of HEP Division chemical exhaust hoods to verify calibration information and review evidence for excess chemical storage.

Scope

Visually inspected High Energy Physics Division labs containing chemical exhaust hoods, interviewed lab Custodians, and reviewed the log book(s) of the lab eyewash station.

Assessment Details/Results

Compliance and hazard analysis are vital components of integrated safety management, ISM. A review of High Energy Physics Division labs containing chemical hoods indicate that excess chemical storage concerns are consistent with Laboratory standard.

HEP Division Laboratory chemical hoods were posted to indicate the minimum face velocity, date, and result of last face velocity measurement.

At the conclusion of the assessment all Laboratory chemical hoods within the HEP Division met performance criteria and there were no issues identified for corrective actions.

Additional Comments and/or Information

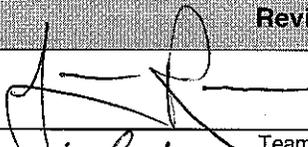
In accordance with the ANL ES&H Manual, 7.11, Ventilation and Air Cleaning the following specifics apply:

- 1) Line supervisors must ensure that equipment and facilities for which they are responsible are initially and periodically tested, maintained, and operated in a manner that minimizes the release of air contaminants
- 2) Facility Maintenance Services, FMS must make measurements annually to ascertain that volumetric airflow rates, linear velocities, and directions of flow are correct and within the posted testing benchmarks. This includes face velocities on all hoods, and capture velocities for all local exhaust systems.
- 3) Employees must report to their supervisor any operations that they suspect may release hazardous air contaminants into work areas, and ESH coordinator reviews the division's ventilation requirements and coordinates with EQO and FMS.

List of Attachments

Reviews/Approvals

Performed by:



 Team Leader

Date: 10/07/08
 mm/dd/yy

Reviewed by:



Date: 10/9/08
 mm/dd/yy

Approved by:



 Responsible Manager

Date: 10/09/08
 mm/dd/yy

File/Distribution: Responsible Manager (retains original)
 Next Level Manager
 EQO Management Assessment Coordinator
 ESH/QA Representative



MANAGEMENT ASSESSMENT CHECKLIST

Management Assessment Number	Management Assessment Title	Assessment Date(s)	Meets Criteria?	
HEP-FY08-MA-003	Laboratory Exhaust Hoods	October 09, 2008	Yes	No
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Item	Performance Criteria	Discussion/Objective Evidence	Yes	No
1	Are hoods properly labeled; including information on hood class, face velocity, and calibration date(s)	Described in the assessment report	X	
2	Are excess chemicals stored in the ventilation hood	Described in the assessment report	X	
3	Are hoods equipped with HEPA filters			X
4	Are out of service hoods posted	Described in the assessment report	X	
5	Are hoods located adjacent to the primary means of exit		X	

Performed by: [Signature] Date: 10/09/08 Approved by: [Signature] Date: 10/09/08

Team Leader Responsible Manager

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