

## FESHM 8070: DECONTAMINATION AND DECOMMISSIONING DOCUMENTATION

### Revision History

<b>Author</b>	<b>Description of Change</b>	<b>Revision Date</b>
E. Mieland, D. Cossairt, J. Niehoff	<ul style="list-style-type: none"><li>• Modified Chapter Title</li><li>• Added clarification language describing chapter purpose.</li><li>• Added definitions as appropriate.</li><li>• Improved connection with other sources of contamination information that are available.</li><li>• Removed reference to risk assignment and added reference to FESHM 7050 Demolition Rules. 7050 is being updated to support greater use of the Demolition Engineering Survey Checklist for projects (identifying contaminate risk is associated with the checklist).</li></ul>	04/2015
E. Mieland	<ul style="list-style-type: none"><li>• Added implementing a risk assignment process for major projects following methodology outlined in the QAM</li></ul>	06/2010
P. Kesich	<ul style="list-style-type: none"><li>• Modified Responsibilities Section</li><li>• Added reference links to other documents</li><li>Appendix eliminated</li></ul>	02/2008

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## 1.0 INTRODUCTION

This chapter designates the responsibilities for establishing and maintaining the decontamination and decommissioning (D&D) documentation of the Laboratory. The purpose of D&D documentation is to provide adequate safeguards against injury or illness for employees, sub-contractors and the public or damage to the environment at such future time that facilities are demolished. The documentation is not a comprehensive inventory of all facilities and all contamination at the laboratory but rather a summary collection of facilities where contamination has been identified. The D&D File shall consist of documents in the form of a drawing, memo, email, etc., alerting the Environment, Safety, Health and Quality (ESH&Q) Section Head of contamination present in the facility. The information concerning contamination in facilities at Fermilab should be maintained throughout their life cycle.

## 2.0 DEFINITIONS

**Contamination** – The presence of measurable quantities of toxic, hazardous, or radioactive materials either in equipment within a structure and its environs or introduced to the structure itself and its environs as a result of Fermilab activities including both construction and operation.

**Decontamination** – The removal or reduction of radioactive and/or other hazardous contamination from facilities, including structural and nonstructural materials and equipment.

**Decommissioning** – Actions taken at the end of the life of a facility to retire or suspend it from service.

**Demolition** – Dismantling, razing, destroying or wrecking any building, structure or any part thereof.

**Facility** – a structure including but not limited to, enclosure, shed, trailer, building or any constructed property that serves a specific function or service.

## 3.0 RESPONSIBILITIES

### 3.1 Divisions/Sections/Centers

- Responsible for the identification of any hazardous materials, other chemicals, and radioactivity in their facilities that is not removable and communicate the information to the head of the ESH&Q Section to be incorporated into D&D documentation.<sup>1</sup>

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<sup>1</sup> In July, 2000, DOE imposed a suspension on the recycling of metals being removed from radiological areas, as defined by 10 CFR 835, as of that date. Such metals may not be recycled. A Radiation Safety Officer should be consulted concerning special procedures instituted to comply with this suspension.



- Ensure that information regarding non-removable radioactivity and chemical hazards is transmitted to the ESH&Q Section prior to D&D activity. Means for gathering information will include, but not be limited to the following.
  - Environmental Review Forms (FESHM 8060, National Environmental Policy Act Review Policy )
  - Lists of Facilities Containing Radioactive Materials (Fermilab Radiological Control Manual (FRCM) Chapter 2, Part 4, Release Certification Program for Facilities Containing Radioactive Materials)
  - Demolition Engineering Survey Checklists
- Examples of chemicals that should be included in reports to ESH&Q for D&D filing are referenced in FESHM Chapter 8021, Chemical and Radioactive Waste Management. All substances regulated under state or federal regulations shall also be included. Radioactive contamination limits may be found in FRCM Chapter 2, Table 2-2, Summary of Contamination Values. Information concerning known contamination associated with existing facilities is documented in Active Facility Data Collection System summaries and the List of Facilities Containing Radioactive Materials, both maintained and available by the ESH&Q Section. In the event that facility demolition is planned, FESHM 7050 Rules for Demolition shall be followed, including completion of the Demolition Engineering Survey Checklist.

### 3.2 Facilities Engineering Services Section

- Shall be the repository for all civil construction drawings.
- Maintain available archival drawings of all structures and underground enclosures after their removal, modification or abandonment.

### 3.3 ESH&Q Section

- Maintain a permanent file designated the "Decontamination and Decommissioning File" (D&D File).