



ESH&Q Section

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## Memorandum

August 18, 2015

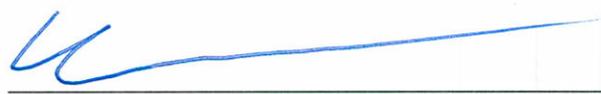
**To:** Timothy I. Meyer, COO   
**From:** Martha Michels   
**Subject:** FESHM Chapter 4270 – Static Magnetic Fields

Fermilab Environment Safety Health Manual (FESHM) 4270, *Static Magnetic Fields* replaces FESHM 5062.2, *Static Magnetic Fields*. The chapter was revised during its five-year review. In March, 2015, Fermilab decided to adopt the current (2015) version of the American Council of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs). These values are in line with increased values adopted by ACGIH in 2010, and reflect updated knowledge of the biological effects of static magnetic fields. Changes to the chapter include:

- The text was rewritten to reflect improved knowledge of the biological effects from magnetic fields and to align the format with that of other industrial hygiene chapters.
- The exposure limits are unchanged and are set equal to the 2015 ACGIH TLVs. The whole body values for general workers and medical device wearers are unchanged. The TLV for limbs is increased in Section 4.0, Procedures.
- The TLVs now omit the 8-hour Time Weighted Average, and include a separate limit (also in Section 4.0) for workers with special training and controlled workplace environments.
- Chapter updated to new FESHM Format along with references to Environment, Safety and Health (ESH) Section changed to Environment, Safety, Health, and Quality (ESH&Q) Section.

Encl.

**Recommended for Approval:**



Timothy I. Meyer, COO

8/19/2015

Date

Approved:



Nigel S. Lockyer, Director of Fermilab

8/20/2015

Date