



## Department of Energy

Fermi Site Office  
Post Office Box 2000  
Batavia, Illinois 60510

August 14, 2017

Ms. Martha E. Michels  
Chief Safety Officer  
Fermilab  
P.O. Box 500  
Batavia, Illinois 60510

Dear Ms. Michels:

**SUBJECT: WHITE PAPER JULY 18, 2017 - ACCEPTANCE OF STEEL AND ALUMINUM STRUCTURES DESIGNED PER THE EUROCODES AT FERMILAB**

Reference: Letter, from M. Michels to M. Weis, dated 6/21/17, Subject: Same As Above

The Department of Energy Fermi Site Office (FSO) received the above referenced letter and your request to concur on the Laboratory's technical analysis equivalency study on structures designed to the Eurocodes. The whitepaper on this subject demonstrated that the structural Eurocode design standards provide an equivalent level of safety as the U.S. codes that were analyzed.

FSO reviewed the subject letter and supporting materials and concurs that the Laboratory did due diligence in identifying alternate codes and standards for structure designs performed by International Science Partners for the application of European Union (EU) steel and aluminum structure designs. FSO acknowledges this analysis was performed in accordance with FESHM 2110, "Establishing Code Equivalency for International Codes and Standards" and documented per the attached white paper technical analysis that EU structural design requirements provided an equivalent level of safety. In addition, Fermilab should ensure additional inspection and acceptance criteria will be applied to assure the equipment and components accepted under this alternate standard meet the required level of protection prior to placing them in service.

FSO concurs that the alternate standard process defined in FESHM 2110 is only applied to establish equivalent International Consensus Standards when Standards identified in 10 CFR 851, "Worker Safety and Health Program" are not available due to special circumstances such as in kind experimental contributions from international partners. FSO has reviewed the submittal and concurs on the use of the alternative code or standard based on our determination that the Fermilab process was followed and the technical basis indicates that equivalent levels of protection will be maintained. As previously agreed, a record of when and where this approach has been utilized and evidence of performance testing/inspection prior to

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use will be verified by our office. If you have any questions related to this subject, please contact John Scott, of my staff, at (630) 840-2250.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Weis". The signature is fluid and cursive, with a large initial "M" and a trailing flourish.

Michael J. Weis  
Site Manager

cc: N. Lockyer  
T. Meyer  
C. Mossey