

Matthew Quinn
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Date: February 6, 2024
To: Alexander Valishev, Head – AD
From: Matthew Quinn, Senior Radiation Safety Officer
Re: Approval of NuMI area Maximum Credible Incident Document

Message:

I have reviewed the document *NuMI Area Maximum Credible Incident*, version 1.1 dated February 5, 2024. This analysis details the maximum credible incident for the NuMI area of 2.83 E17 protons at 120 GeV in one hour and the required credited controls to ensure doses are kept below 5000 mrem inside of buildings, 500 mrem outside of buildings, and 100 mrem to members of the public. As sufficient passive shielding exists to protected areas at these levels, no active interlocked detectors are required to meet these dose limits. I concur that the analysis is satisfactory in terms of methodology, completeness, and compliance with the Fermilab Accelerator Safety Envelope dose requirements, and thus approve of this MCI analysis and planned operations within its scope.

Cc:
M. Clay
M. Convery
J. Fulgham
T. Kobilarcik
J. Malo
P. Schlabach
W. Schmitt
M. Schoell