

# Memorandum

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**Date:** December 1, 2022

**To:** Sasha Valishev, Accelerators Associate Lab Director  
Kevin Burkett, Particle Physics Associate Lab Director  
Alexander Romanenko, APSTD Associate Lab Director  
Mark Jeffers, Infrastructure Services Director  
Amber Kenny, Environment, Safety & Health Director  
Martha Michels, Contract Assurance (CAS)

**From:** Maddie Schoell, ES&H Radiation Physics Operations Department Head

**Re:** DOE O 420.2D *Safety of Accelerators* Implementation Plan Working Group Member Request

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## Message:

The revised [DOE O 420.2D Safety of Accelerators](#) was issued September 9, 2022, and Fermilab is expected to implement updates and ensure robust compliance with the revised Order through FY23. Additionally, several letters have been sent to the lab stating Fermilab Site Office (FSO) concerns, and Fermilab's FY23 PEMP Goal 4 Notable asks the Lab to update, and externally validate, an updated Accelerator Safety Envelope (ASE) and Safety Assessment Document (SAD) to reflect the requirements in the DOE O 420.2D, the current configuration, and a consistent authorized operating limit.

Fermilab's plan [1] for implementing updated requirements, as well as achieving the PEMP notable and addressing FSO concerns, establishes seven (7) Working Groups that will be charged with ensuring their Focus Area is adequately reviewed and updated to ensure robust compliance with DOE O 420.2D, address FSO concerns letters, and achieve the FY23 PEMP Goal 4 Notable.

## Focus Areas

1. Radiation Generating Devices (RGDs)
2. Unreviewed Safety Issue (USI) Process
3. Safety Assessment Document (SAD)
4. Accelerator Safety Envelope (ASE)
5. Accelerator Readiness Review (ARR) Program
6. Training, Fermilab Environmental, Safety & Health Manual (FESHM) and Fermilab Radiological Control Manual (FRCM) Updates
7. Contractor Assurance System (CAS) & Reviews

In order to ensure success, each Working Group will include stakeholders for each Focus Areas from across the Lab. Table 1 specifies requested stakeholders from each Directorate or Division to participate in each Working Group. Associate Lab Directors and Directors are asked to please recommend individuals from their organizations to participate in these Working Groups. One member of each Working Group

will be the Lead of the Group. Leads will be expected to coordinate meetings with their Group to fulfill their charge within the given timeline, as well as at least once per month with other Leads to discuss progress. Other members of the Group will be expected to meet per the Lead’s schedule. It should be anticipated that time towards these efforts will also be expected outside/in addition to the scheduled meetings.

Please respond by Friday December 9, 2022 with your Directorate’s/Division’s requested members.

Please contact Maddie Schoell if you have any questions. Thank you for your continued support in this effort to ensure robust compliance with the Accelerator Safety Order.

Table 1. Requested Stakeholders for Working Groups

	Accelerators Directorate	Particle Physics Directorate	APS-TD Directorate	Infrastructure Services Division	Environment, Safety & Health Division	Other
1. Radiation Generating Devices (RGDs)	1 RGD Custodian 1 Operator	1 RGD Custodian	1 RGD Custodian		1 RSO 1 DSO	1 FSO Observer
2. Unreviewed Safety Issue (USI) Process	1 Machine Owner	1 Experiment Liaison			1 RSO 1 DSO 1 Event Response Coordinator	1 Quality 1 FSO Observer
3. Safety Assessment Document (SAD)	1 SAD Chapter Author 1 Operator 1 additional	1 SAD Chapter Author 1 additional	1 APS-TD Rep (who will update TD Facilities SAD Chapter)		1 SAD Review Subcommittee Chair 1 DSO 1 AHJ/other SME 1 ERPP Manager	1 FSO Observer
4. Accelerator Safety Envelope (ASE)	1 from SAD Working Group	1 from SAD Working Group			1 SAD Review Subcommittee Chair 1 DSO 1 ERPP Mgr	1 FSO Observer

	Accelerators Directorate	Particle Physics Directorate	APS-TD Directorate	Infrastructure Services Division	Environment, Safety & Health Division	Other
5. Accelerator Readiness Review (ARR) Process	1 from SAD & ASE Working Groups				1 SAD Review Subcommittee Chair 1 DSO	1 FSO Observer
6. Training, FESHM & FRCM Updates					1 RP Member 1 DSO	1 FSO Observer
7. Contractor Assurance System (CAS) & Reviews					1 SAD Review Subcommittee Chair	1 Quality Office 1 CAS Office 1 FSO Observer

Attachments:

- [1] DOE O 420.2D, *Safety of Accelerators*, Fermilab Implementation Plan

Cc:

[ESH DocDB 7149](#)

RPO Department

Jeremy Sawyer

Matt Quinn

Katie Swanson

Eric McHugh

Kathy Vuletich

Wayne Schmitt