



Department of Energy
Office of Science
Washington, DC 20585

Office of the Director

September 9, 2010

JM CHRONOLOGY

JM RECEIVED 9/9/10
OUT FOR REVIEW 9/10/10
DRB DISCUSSION 9/13/10

MEMORANDUM FOR INGRID KOLB
DIRECTOR, OFFICE OF MANAGEMENT

THROUGH: KEVIN T. HAGERTY
DIRECTOR, OFFICE OF INFORMATION RESOURCES

FROM: W. F. BRINKMAN
DIRECTOR, OFFICE OF SCIENCE

SUBJECT: Notice of Intent to Revise DOE Order 420.2B, *Safety of Accelerator Facilities*

PURPOSE: DOE Order 420.2B, *Safety of Accelerator Facilities*, establishes accelerator-specific safety requirements which serve to prevent injuries and illnesses associated with Department of Energy (DOE) or National Nuclear Security Administration accelerator operations. The Order sets forth responsibilities to ensure safe operations and provides specific requirements to address both DOE and contractor activities. The directive is designed to have a minimum set of requirements while achieving the goals set forth in DOE rules, regulations, and standards.

JUSTIFICATION: The revision to DOE Order 420.2B is required to meet the principles governing Departmental Directives as defined in DOE Order 251.1C, *Departmental Directives Program*.

The revision will clarify DOE and contractor roles and responsibilities, improve the efficiency of operations, and provide a definition of an accelerator and its associated facilities. The revision will address approval authorities for safety documentation, reduces duplicative requirements, and will clarify the applicability of associated DOE rules and directives. The revision will address operational aspects such as verifying controls that provide for protection of the worker, public, and environment, as well as the facility and operating equipment. The revised Order will also clarify program and process requirements for accelerator safety documentation including operational bounding limits.

The proposed directive will not duplicate existing laws, regulations, or national standards; and it does not create an undue burden on the Department.

IMPACT: The revised Order will improve and clarify the regulatory relationship and compliance with 10 CFR 835, *Occupational Radiation Protection*, and 10 CFR 830, *Nuclear Safety Management*. The revised Order will not impact its current applicability. Progress has already been made through a joint collaboration within the Accelerator Community. Several meetings



and workshops designed to clarify accelerator safety requirements through better definitions and address areas already covered by 10 CFR 835 have been held. Safety assessment information will be better focused on a systems approach to address specific accelerator hazards not addressed in other regulations (i.e., 10 CFR 830 and 10 CFR 835). Clarification of the definition of accelerator facilities will help differentiate accelerator facilities and their hazards from nuclear facilities and thus aiding site compliance with other regulations.

As a routine revision to both an existing Order and its associated Contractor Requirements Document, any impact is considered minimal. No additional impacts on other directives, technical standards, or procedures are anticipated.

WRITER: Scott L. Davis, Office of Science, 301-903-9641

OPI CONTACT: Scott L. Davis, Program Manager for Accelerator Safety, Environment, Safety and Health Division; Office of Safety, Security and Infrastructure; Office of Science, 301-903-9641.

Concur:  Nonconcur: _____ Date: 9-23-10

Writer requests an abbreviated draft phase.

Proposed Schedule for Directive Review, Comment and Approval

	Standard	Proposed
<u>Action</u>	<u>Days</u>	<u>Days</u>
<u>Draft Directive</u>	<u>60</u>	<u>45¹</u>
<u>Process/Post (MA-90)</u>	<u>5</u>	<u>5</u>
<u>Review and Comment</u>	<u>45</u>	<u>45</u>
<u>Comment Resolution</u>	<u>30</u>	<u>30</u>
<u>Process/Post (MA-90)</u>	<u>5</u>	<u>5</u>
<u>Concurrence (OPI)</u>	<u>15</u>	<u>15</u>
<u>Preparation of final draft (OPI)</u>	<u>5</u>	<u>5</u>
Total	165	150

¹Draft Directive has been coordinated with the applicable Program and Field Offices