



## Department of Energy

Washington, DC 20585

January 6, 2006

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JN SAFETY BOARD

The Honorable A. J. Eggenberger  
Chairman  
Defense Nuclear Facilities Safety Board  
625 Indiana Avenue, NW Suite 700  
Washington, D.C. 20004-2941

Dear Mr. Chairman:

On February 28, 2005, the Department of Energy provided a schedule to develop, revise, approve, and issue directives related to software quality assurance. The purpose of this letter is to provide you with the status of these directive changes.

On June 17, 2005, DOE O 414.1C, *Quality Assurance*, and DOE G 414.1-4, *Safety Software Guide for use with 10 CFR 830 Subpart A, Quality Assurance Requirements*, and DOE O 414.1C, *Quality Assurance*, were issued. With the issuance of these two directives, the attached list has been revised to show the new schedule for revising other directives to reference the revised Order and the new software quality assurance Guide.

We will continue to actively involve your staff in the directive revision process. Questions concerning this commitment may be directed to me at (202) 586-1772 or Robert Loesch at (301) 903-4443.

Sincerely,

*for* Frank E. Tooper  
Acting Deputy Assistant Secretary  
Office of Corporate Performance Assessment

Attachment

cc:  
John Spitaleri Shaw, EH-1  
C. Russell Shearer, EH-1  
Mark B. Whitaker, DR-1  
Richard Black, EH-22  
Robert M. Loesch, EH-31  
Brenda C. Coblenz, IM-21  
Bud Danielson, EH-31



## Attachment

<b>Directives</b>	<b>Nuclear Facility Safety Software Directive Topic and Proposed Change</b>	<b>Responsible Organization</b>	<b>Final Issue Target Date</b>
DOE O 414.1C	Quality Assurance – Add new outcome-based requirements in an attachment for broad applicability to nuclear facility safety software	EH	Issued 6/17/05
DOE G 414.1-4	Quality Assurance Guide for Safety Software – new guide to support DOE O 414.1C, Attachment 5	EH	Issued 6/17/05
DOE G 414.1-2A	Quality Assurance System Management System Guide – guide was revised to include reference to safety software and SQA activities	EH	Issued 6/17/05
<b>Directives</b>	<b>Minor changes to other Directives to reference revised Order and New Guide</b>	<b>Responsible Organization</b>	<b>Final Issue Target Date</b>
DOE O 420.1	Facility Safety – Update references to new QA Order requirements and guide	EH	Target Date 1/31/06
DOE G 420.1-1	Nonreactor Nuclear Safety Design Criteria and Explosive Safety Criteria Guide for use with DOE O 420.1 Facility Safety – Update references to new QA Order requirements and guide.	EH	Note 1
DOE G 420.1-2	Guide for the Mitigation of Natural Phenomena Hazards for DOE Nuclear Facilities and Non-Nuclear Facilities – Update references to new QA Order requirements and guide.	EH	Note 1
DOE G 421.1-1	DOE Good Practice Guide, Criticality Safety Good Practices Program Guide for DOE Nonreactor Nuclear Facilities - Update references to new QA Order requirements and guide.	EH	Note 1
DOE G 421.1-2	Safety Analysis Guide for 10 CFR 830, Subpart B - Update references to new QA Order requirements and guide.	EH	Note 1
DOE STD 3009	Safety Analysis Guidance - Update references to new QA Order requirements and guide.	EH	Target Date 12/31/06
DOE STD 1104	Review and Approval of Nuclear Facility Safety Basis Documents (Documented Safety Analyses and Technical Safety Requirements) - Update references to new QA Order requirements and guide.	EH	Target Date 1/31/06
DOE G 414.1-1A	Management and Independent Assessment Guide – Refer to standards and add reference to Safety Software directives.	EH	Note 1
DOE O 200.1	Information Management – Update reference to EH responsibility for safety software quality assurance.	CIO	Note 1
DOE G 200.1-1	Software Engineering Methodology – Update references to new QA Order requirements and guide.	CIO	Note 1

Note: 1. Directives recommended for minor revision to refer to safety software requirements will be revised during their next normal update cycle.