Department of Energy
Washington, DC 20585

February 26, 2008

The Honorable A. J. Eggenberger
Chairman
Defense Nuclear Facilities Safety Board
625 Indiana Avenue, NW Suite 700
Washington, DC 20004-2901

Dear Mr. Chairman:

Commitment 4.3.2.1 in the Department of Energy's (DOE) Implementation Plan for Board Recommendation 2002-1, *Quality Assurance for Safety Related Software,* requires the Department to establish a schedule to develop, revise, approve, and issue software quality assurance directives. Periodically, the Department has provided you with the status of directives being revised to include reference to the software quality assurance requirements contained in DOE Order 414.1C, *Quality Assurance,* and DOE Guide 414.14, *Safety Software Guide for Use with 10 C.F.R. 830 Subpart A, Quality Assurance Requirements, and DOE O 414.1C, Quality Assurance.* The attached list provides the current status and schedule for these directives revisions.

We will continue to involve your staff in the directive revision process.

Questions concerning this commitment may be directed to me at (202) 586-6740 or Colette Broussard at (301) 903-5452.

Sincerely,

Andrew C. Lawrence
Director
Office of Nuclear Safety and Environment

Enclosure

Directives	Nuclear Facility Safety Software Directive Topic and Proposed Change	Responsible Organization	Final Issue Target Date
DOE O 414.1C	Quality Assurance – added new outcome-based requirements in an attachment for broad applicability to nuclear facility safety software	HSS	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	HSS	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	HSS	Issued 6/17/05
Directives	**Minor Changes to Other Directives to Reference Revised Order and New Guide**	**Responsible Organization**	**Final Issue Target Date**
DOE O 420.1B	Facility Safety – updated references to new QA Order requirements	HSS	Issued 12/22/05
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	HSS	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	HSS	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	HSS	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	HSS	Note 1
DOE STD 3009	Safety Analysis Guidance - update references to new QA Order requirements and Guide	HSS	Note 1
DOE STD 1104 Change Notice #3	Review and Approval of Nuclear Facility Safety Basis Documents (Documented Safety Analyses and Technical Safety Requirements) – updated to add reference to software quality assurance	HSS	Issued 12/16/05
DOE G 414.1-1B	Management and Independent Assessment Guide – added reference to QA Order requirements and Guide	HSS	Issued 9/27/07
DOE O 200.1	Information Management – update reference to HSS responsibility for safety software quality assurance, currently in RevCom	CIO	Target date August 2008
DOE G 200.1-1	Software Engineering Methodology – update references to new QA Order requirements and guide	CIO	Target date October 2008

Note: 1. Directives recommended for minor revision to refer to safety software requirements will be revised during their next normal update cycle. All but one of these guides and standards will be updated starting in 2008 (following issuance of DOE Standard 1189, *Integrating Safety into the Design Process*) and completed in 2009. The exception is DOE G 421.1-1, *Criticality Safety Good Practices Program Guide for DOE Nonreactor Nuclear Facilities,* which is not expected to be updated until after the update of these other guides is completed.