

Revision DOE O 414.1E – Quality Assurance

Office of Quality Assurance & Nuclear Safety Management Programs

Garvey McKeown EFCOG Fall 2024





Major Changes to DOE O 414.1E

- Relocation of Attachment 3 & 4 Requirements into Attachment 2
- Clarification of QAP vs. QAPD
- Removal of "Invocation" of ASME NQA-1 2008, 2009-a
- Re-emphasized the importance of the graded approach as part of the QAP



Questions About DOE O 414.1E

- What work does the order apply to?
- Why were most definitions removed from the Order?
- Does the Order still align with the Rule?
- Why was the invocation of NQA-1 removed from the Order?
- What changes were made to the graded approach?



Applicability

- DOE O 414.1D:
- Except for the equivalencies and exemptions in paragraph 3.c., this Order applies to all work conducted by or for DOE, including work for nuclear and non-nuclear facilities.

• DOE O 414.1E:

• Except for the equivalencies and exemptions in paragraph 3.c., this Order applies to all work conducted by or for DOE.



Definitions

- DOE O 414.1D:
- Contains 32 definitions, including safety software, definitions found in 10 CFR 830, and common industry terms.
- DOE O 414.1E:
- Only contains five definitions specific to DOE QA or introduced by the Order. Allows organizations to utilize the definitions found in their consensus standard and 10 CFR 830 without conflict with the Order.



Alignment with 10 CFR 830 Subpart A

- DOE O 414.1D:
- Attachment 2 contains 10 Criteria that directly algin with the 10 Criteria of the Rule.
- DOE O 414.1E:
- Attachment 2 contains 10 Criteria that directly algin with the 10 Criteria of the Rule, in addition to requirements for Software Quality Assurance and Suspect/Counterfeit Items.



Consensus Standards For Hazard Category 1, 2, 3 Facilities

• DOE O 414.1D:

• New facilities and major modifications to existing facilities achieving Critical Decision 1 (CD-1) after the Order containing this CRD has been issued use ASME NQA-1-2008 with the NQA-1a-2009 addenda (or a later edition), Quality Assurance Requirements for Nuclear Facility Applications, Part I and applicable requirements of Part II.

• DOE O 414.1E:

For Hazard Category 1, 2, and 3 nuclear facilities, ASME NQA-1 (NQA-1-2008 with the NQA-1a-2009 addenda or later version) is the preferred standard for use as the basis of the QAP with appropriate gaps (e.g., software and work control) addressed. Other voluntary consensus standards may be used upon approval by the DOE QA Approval Authority.



Graded Approach

- DOE O 414.1D:
- Currently located in the definition section and referenced in the CRD and Body of the Order.
- DOE O 414.1E:
- Full definition in the CRD and Body of the order, with additional documentation requirements to allow for greater consistency.



Contact Information

Garvey McKeown
 Office of Quality Assurance & Nuclear Safety
 Management Programs
 Office Number: 202-251-1206
 Email: <u>Garvey.McKeown@hq.doe.gov</u>