

Nuclear Safety, Quality Assurance & Environment

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Criticality Safety**Nuclear Safety Basis**

The Office of Nuclear and Facility Safety establishes and maintains the DOE requirements for nuclear criticality safety. The DOE detailed requirements for criticality safety are contained in Section 4.3 of the DOE Order 420.1, Facility Safety. Criticality safety requirements are based on the documented safety analysis required by 10 CFR 830, Subpart B. Additionally, guidance for satisfying the DOE requirements is found in the Implementation Guide for the 830 rule and in DOE Standard 3009-94, chapter six. DOE-G-421-1 also provides detailed program guidance to criticality practitioners and reviewers.

Criticality Safety Contacts: Dick Englehart or Burt Rothleder

Links:

10 CFR 830, Nuclear Safety Management

American Nuclear Society, Nuclear Criticality Safety Division

ANSI/ANS-8 Standards

U.S. Department of Energy Nuclear Criticality Safety Program

DOE Nuclear Criticality Safety Program

The following orders, policies, and guides may be found at [The Department of Energy's Directives Web Site](#).

DOE Order 420.1A, Facility Safety

DOE G 421.1-2; DOE G 423.1-1; DOE G 424.1-1, Implementation Guides for 10 CFR 830

DOE-G-421.1-1, DOE Good Practices Guide

The following technical standards may be found at [The Department of Energy's Technical Standards Web Site](#).

DOE STD 3009-94, Preparation Guide for US DOE Nonreactor Nuclear Facility Safety Analysis Reports

DOE-STD-3007-93, Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities

DOE-STD-1135-99, Guidance for Nuclear Criticality Safety Engineer Training and Qualification

This page was last updated on March 11, 2011