

Department of Energy National Nuclear Security Administration Washington, DC 20585



April 4, 2023

MEMORANDUM FOR THE ASSOCIATE PRINCIPAL DEPUTY ADMINISTRATOR

AND CENTRAL TECHNICAL AUTHORITY

Ahmad M.

Digitally signed by Ahmad M. Al-Daouk

THROUGH: AF

AHMAD AL-DAOUK Al-Daouk

Date: 2023.04.04 06:54:47 -06'00'

ASSOCIATE ADMINISTRATOR

FOR ENVIRONMENT, SAFETY, AND HEALTH

Kelli A.

Digitally signed by Kelli A.

FROM:

KELLI MARKHAM Markham

Markham
Date: 2023.04.04
08:47:59 -04'00'

CHIEF OF DEFENSE NUCLEAR SAFETY

SUBJECT:

ACTION: Approve Revising DOE-NA-STD-3016-2018, *Hazard Analysis Report for Nuclear Explosive Operations*, and Signing a

Memorandum for Distribution to Department of Energy (DOE) and

Defense Nuclear Facilities Safety Board (DNFSB) Personnel

ISSUE: Revising and replacing DOE-NA-STD-3016-2018, *Hazard Analysis Report for Nuclear Explosive Operations*, with DOE-NA-STD-3016-2023, under the same name. In addition, approval of and signature on a distribution memorandum relaying this information to various Department of Energy (DOE) and Defense Nuclear Facilities Safety Board (DNFSB) personnel.

BACKGROUND: The Office of Environment, Safety, and Health, Office of Safety, requests your approval as Central Technical Authority of revisions to DOE-NA-STD-3016-2018, *Hazard Analysis Report for Nuclear Explosive Operations*. Upon approval, the revised version will be titled DOE-NA-STD-3016-2023, *Hazard Analysis Report for Nuclear Explosive Operations*. The proposed revisions clarify implementation requirements for NNSA, Production Office Contractors, and the Design Agencies. The revised Standard also defines "man-made external events" in alignment with DOE-STD-3009-2014, *Preparation of Nonreactor Nuclear Facility Documented Safety Analysis*, and adds "man-made external events" to Section 6.3, *Accident Selection and Analysis*. These changes replace an earlier draft of STD-3016 that proposed edits to the screening threshold. The proposed changes have been coordinated and reviewed by affected stakeholders including the DNFSB and NNSA Production Office.

SENSITIVITIES: None.

POLICY IMPACT: DOE-NA-STD 3016-2018, is a pre-approved documented safety analysis methodology indicated in Table 2 of 10 CFR 830, *Nuclear Safety Management*. This standard is referenced in DOE O 410.1, *Central Technical Authority Responsibilities Regarding Nuclear Safety Requirements*, thus requiring CTA approval.

Proposed changes to DOE-NA-STD-3016-2018 include safety requirements relevant to Nuclear Explosive Operation through Hazard Analysis Reports preparation. Therefore, it is an appropriate DOE Standard rather than a DOE handbook, consistent with Appendix A, of DOE O 252.1A, *Technical Standards Program*. The proposed revision is to a DOE Standard that is already in the DOE Technical Standards System and no change in document type is proposed or required.

URGENCY: The DOE Technical Standards Program has requested these changes as soon as possible.

RECOMMENDATION: Approve DOE-NA-STD-3016-2023 and sign the distribution memorandum to DOE and DNFSB personnel.

APPROVE: ____ NEEDS DISCUSSION: ____ DATE: 4/14/2423