

U.S. Department of Energy
Washington, D.C.

PAGE CHANGE

DOE 5610.3 Chg 1

9-2-81

SUBJECT: PROGRAM TO PREVENT ACCIDENTAL OR UNAUTHORIZED NUCLEAR
EXPLOSIVE DETONATIONS

1. PURPOSE. This Page Change transmits revised pages V-1 and V-2 of DOE 5610.3, PROGRAM TO PREVENT ACCIDENTAL OR UNAUTHORIZED NUCLEAR EXPLOSIVE DETONATIONS, of 12-18-80.
2. EXPLANATION OF CHANGE. A rule is added to Chapter V to clarify the requirements of the two-person rule.
3. FILING INSTRUCTIONS.

a. <u>Remove Page</u>	<u>Dated</u>	<u>Insert Page</u>	<u>Dated</u>
V-1	12-18-80	V-1	12-18-80
V-2	12-18-80	V-2	9-2-81

- a. After filing the attached pages, this transmittal may be discarded.



William S. Heffelfinger
Assistant Secretary
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INITIATED BY:

Office of Military Application

CHAPTER V

ESTABLISHMENT OF GENERAL NUCLEAR SAFETY RULES

1. GENERAL.

- a. The general nuclear safety rules set forth in this chapter are mandatory for all operations conducted or sponsored by the DOE with nuclear explosives. Implementation of these safety rules is expected to take different forms due to the many diverse operations performed in the DOE's nuclear explosive development, test, and production complex. Practices and procedures shall be such as to assure compliance with these safety rules. If upon completion of a nuclear safety study it is deemed operationally necessary to deviate from a requirement set forth by the general nuclear safety rules, a request for permission to deviate from an established requirement shall be forwarded by appropriate channels to the Assistant Secretary for Defense Programs for approval. Compliance shall be adjudged by monitoring and during nuclear safety studies, surveys, and appraisals.
- b. Managers responsible for operations conducted or sponsored by the DOE shall develop specific safety rules to supplement the general safety rules for specific operations with nuclear explosives or to address specific characteristics of an individual design of a nuclear explosive, a specific test, or operation.

2. GENERAL NUCLEAR SAFETY RULES.

- a. All operations involving nuclear explosives shall be governed by approved nuclear safety rules and safety procedures.
- b. Nuclear safety rules shall be developed to assure the safe conduct of all operations with nuclear explosives.
- c. Nuclear safety rules shall have as their objective compliance with the four standards of safety listed in Chapter VI.
- d. All operations involving nuclear explosives and associated systems shall be in accordance with approved written procedures, checklists, or drawings.
- e. The two-person concept for operations shall apply during all operations which afford access.
- f. At least one designated individual capable of determining appropriate emergency procedures for accidents or incidents involving a nuclear explosive shall be on call for consultation during all phases of operations involving nuclear explosives.
- g. DOE and contractor employees whose duties require the performance of work which affords both the technical knowledge of and access to

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nuclear explosives shall be evaluated to determine their suitability for such an assignment.

- h. Only individuals who meet and maintain high standards of reliability, work performance, motivation, mental and emotional stability, and have the physical capacity shall be assigned critical duties.
- i. Prior to the employment of tools, test equipment, handling equipment, and transport equipment for nuclear explosives, there shall be a safety analysis of the equipment to assure that an adequate degree of safety is inherent in their use.
- j. The assembly of nuclear explosives will be performed only at those locations authorized by the Assistant Secretary for Defense Programs.
- k. Operations involving the assembly, disassembly, handling, storage, transportation, testing, and detonating (high explosive or nuclear) of nuclear explosives not known to be one-point safe shall be conducted only at the Nevada Test Site.
- l. Operations with nuclear explosives not known to be one-point safe shall be kept to a minimum consistent with programmatic requirements.
- m. The two-person concept shall be imposed for all assembly or disassembly operations whenever the principal high explosives and their respective nuclear components are in the same work area.

Vertical line denotes change.