



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MEMORANDUM FOR: Reactor Safeguards Licensing Branch

FROM: R. A. Clark, Chief
Reactor Safeguards Licensing Branch

SUBJECT: LOCKING SYSTEMS-ASSURANCE OF SAFETY AND SAFEGUARDS
DURING AN EMERGENCY-REVIEW GUIDELINE NUMBER 14

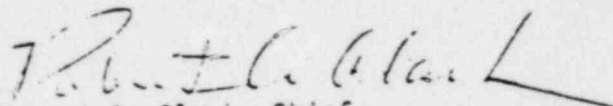
Under emergency conditions, prompt ingress into certain safety-related areas must be assured to enable safe shutdown of a nuclear power plant, and unimpeded egress from all parts of the facility must be assured in the interest of personnel safety.

The design and operation of security devices for doors to vital areas should be based on both safety and security. The following provides guidance on the design and use of security devices on vital area doors:

- a) Prompt emergency ingress into electrically and mechanically locked-safety-related areas by essential personnel must be assured in any postulated occurrence through the combined use of the features below or, the equivalent.
 - 1) Provide reliable and uninterruptable auxiliary power to the entire electrical locking system, including its controls (sufficient physical separation, electrical isolation, and redundancy must be provided to prevent the occurrence of a common mode failure in the uninterruptable auxiliary power supply for the lock system in any design basis event); and
 - 2) Provide electrical locking devices which fail in the secure mode upon loss of both primary and auxiliary power and are equipped with secure mechanical means and associated procedures to override the failed electrical locking devices (e.g., key locks with keys held by appropriate personnel who know when and how to use them); or
 - 3) Provide electrical locking devices which fail in the open mode upon loss of both primary and auxiliary power and associated procedures which provide compensatory measures for the open doors (e.g., deploying guards to strategic points)

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- (The fail open feature should be used only on selected interior doors.); or
- 4) Provide key locks with keys held by appropriate personnel who know when and how to use them; and
 - 5) Provide periodic testing of all locking systems and mechanical overrides to confirm their operability under auxiliary power as well as failed conditions.
- b) Unimpeded emergency egress must be assured from all parts of facilities, the security hardware and systems must be designed and installed so as to not degrade personnel safety, and such hardware and systems should be in conformance with applicable (State/Local) fire regulations and life safety codes.


Robert A. Clark, Chief
Reactor Safeguards Licensing Branch



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WASHINGTON, D. C. 20555

DUPLICATE

FEB 09 1978

MEMORANDUM FOR: Reactor Safeguards Licensing Branch, DOR

FROM: R. A. Clark, Chief
Reactor Safeguards Licensing Branch, DOR

SUBJECT: PACKAGE SEARCH - REVIEW GUIDELINE NUMBER 15

Paragraph 73.55 (d)(3) requires that all packages and material for delivery into the protected area shall be checked for proper identification and authorization and searched for devices such as firearms, explosives and incendiary devices or other items which could be used for industrial sabotage prior to admittance into the protected area, except those Commission approved delivery and inspection activities specifically designated by the licensee to be carried out within vital or protected areas for reasons of safety, security or operational necessity.

This requirement ensures detection of unauthorized materials before protected area entry or before they could be effectively employed in industrial sabotage of vital equipment. The following provides guidance for meeting the requirements of § 73.55 (d)(3) and for Commission approval of delivery and inspection activities inside the protected area:

- (1) All packages and material for delivery into the protected area shall be checked for proper identification and authorization.
- (2) Prior to entering the protected area all packages and material shall be physically searched, machine searched or handled as one of the categories listed below.

Category I - Packages and materials for other consignees on common carrier vehicles are permitted into the protected area without search provided:

- (1) the vehicle is escorted by a guard, and
- (2) the packages and material is under the observation of a guard, and
- (3) the packages and materials are not unloaded in the protected area.

Category II - Bulk products being unloaded while under the observation of a guard constitutes an adequate search.

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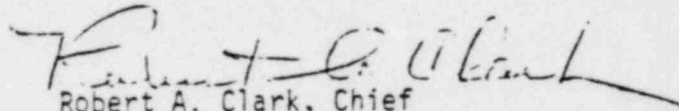
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Category III - Packages and materials excluded from search because search constitutes a danger to the individual or would render the object being searched unusable or contaminated. These packages and materials shall be positively controlled. (For example, stored in a locked area controlled by persons familiar with the material). Products for human consumption shall be positively controlled only to the extent practical. (For example, limiting most items to the lunch room)

Category IV - Packages and materials sealed in the manufacturing process are permitted into the protected area without search but shall be stored in locked areas and opened at their final destination point under the supervision of persons familiar with their contents.


Robert A. Clark, Chief
Reactor Safeguards Licensing Branch

Enclosure:
List of Examples of Each Category

cc: J. R. Miller

Examples of Each Category

Category I

Packages on common carrier vehicles, such as UPS
Packages on vendor vehicles, such as drinks and food consigned to
other locations
Garbage pickup trucks
Waste oil removal trucks
Sewage pumping vehicles

Category II

Gravel
Lumber, Paving material
Fill dirt
Iron & steel pipe, angles, sheet
Gasoline
Carbon dioxide
Diesel fuel
Hydrogen
Nitrogen (liquid)
Power transformer oil
Turbine oil
Propane gas
Sodium hydroxide
Sulfuric acid
Pressurized gas cylinders
Resins

Category III

Small individually packaged food container
Canned drinks for human consumption
Cigarettes
Fuel assemblies

Category IV

Office supplies
Machine sealed or factory assembled materials and equipment
Hermetically sealed products