

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

JAN 25 1984

MEMORANDUM FOR: Chairman Palladino
Commissioner Gilinsky
Commissioner Roberts
Commissioner Asselstine
Commissioner Bernthal

FROM: William J. Dircks, Executive
Director for Operations

SUBJECT: HIGH ENRICHED URANIUM AT NONPOWER REACTORS

The purpose of this memorandum is to respond to Chairman Palladino's December 21, 1983 request to staff to provide background information for the Commission's January 27, 1984 meeting on security at nonpower reactors and the Commission's policy on converting from high enriched to low enriched uranium at nonpower reactors. [

[

Security requirements at nonpower reactors are bounded by Section 104 of the Atomic Energy Act which states, "The Commission is directed to impose only such minimum amount of regulation of the licensee as the Commission finds will permit the Commission to fulfill its obligations under the act to promote the common defense and security and to protect the health and safety of the public and will permit the conduct of widespread and diverse research and development."

[

8405150089 XA 4pp

6/1

(Signed) William J. Dircks

William J. Dircks, Executive
Director for Operations

Enclosure:
As stated

cc: SECY
PE
GC

CURRENT REQUIREMENTS FOR
CATEGORY II* (10 CFR 73.67(d))

1. Store and use material only in a lighted controlled access area (CAA).
2. Monitor the CAA with an intrusion alarm (door switches acceptable) or procedures.
3. Conduct screening (student credentials acceptable) prior to granting unescorted access to the material.
4. Limit CAA access to authorized persons or escorted visitors.
5. Use a badging system and limit access to the controlled access area to persons who require such access in their duties.
6. Provide at least one around-the-clock unarmed watchman to respond to security incidents or emergencies.
7. Provide a communication capability (telephone acceptable) between the watchman and a response force (police acceptable).
8. Search on a random basis vehicles and packages leaving the CAA (visitors only).
9. Establish response procedures.

Note that protection is provided only against an external adversary.

*Less than 5 formula kilograms of high enriched uranium and all fuel irradiated to 100 rem/hour at nonpower reactors.

Enclosure 2

INTERIM
CURRENT REQUIREMENTS
FOR CATEGORY I QUANTITIES BELOW IRRADIATED 100 REM/HOUR
(10 CFR 73.60)

Implement Category II requirements and, in addition,

1. Store and use material in a material access area (MAA) where only necessary activities occur.
2. Enclose the material access area within a protected area to which access is controlled.
3. Store material in a vault or vault type room.
4. Search packages entering the MAA for items to facilitate a theft.
5. Limit MAA access to only necessary persons.
6. Observe persons while they are in the MAA.
7. Search packages, people, and vehicles leaving the MAA for SSNM.
8. Periodically test alarms.

Enclosure 3