



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

2-10-84

Commissioner Asselstine:

The attached notes, which you took during the
2-6-84 Commission meeting and which you asked me
to review, are unclassified.

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Comm. Abdelstine

STAFF CONCLUSIONS

- 1) HEU REPRESENTS A RESIDUAL, UNQUANTIFIABLE SECURITY RISK
- 2) CONVERSION TO LEU IS BEST LONG TERM SOLUTION
- 3) GOVERNMENT FUNDING FOR REPLACEMENT FUEL IF NECESSARY
- 4) LIMIT UNIRRADIATED HOLDINGS ON A SITE-SPECIFIC BASIS
- 5) IMPROVE PHYSICAL SECURITY PRECAUTIONS

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U.S. NONPOWER REACTORS LICENSED COMMUNITY

TOTAL FACILITIES

CURRENT CATEGORY I

CURRENT CATEGORY II

CURRENT CATEGORY III

AMOUNT OF U-235 UNIRRADIATED

AMOUNT OF U-235 IRRADIATED
(IN COOLING)

AMOUNT OF U-235 IN CORE

~70 (71)

1

~30

~40

14-28 Kgs

~90 Kgs

~170 Kgs

GA technologies at San Diego

staying time, this
out will be better
10-30 kg

usually can't break
these down by
radio. level.

13 NPR's have Category I quantities

of these:

6 NPR's have some U-235 irradiated to 1,000 R

3 NPR's " " " " " 500 R

4 " " " " " ≈ 100 R

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CURRENT REQUIREMENTS (73.67)

1. STORE AND USE MATERIAL IN CONTROLLED ACCESS AREA
2. MONITOR AREA FOR INTRUSION
3. PROVIDE FOR ACCESS AUTHORIZATION AND CONTROLS
4. ESCORT VISITORS
5. WATCHMAN AND PROCEDURES FOR EVENT ASSESSMENT
6. COMMUNICATION CAPABILITY WITH RESPONSE FORCE
7. RANDOM EXIT SEARCH--VEHICLES AND VISITORS' PACKAGES,

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Category I facials - inspected annually
Category II vehicles - " every 2 years
Category II low - 3 " " 3 years

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1979 COMMISSION DECISIONS
ON NONPOWER REACTOR SECURITY -

*These were detection
engineers, not prevention
of theft.*

1. SECURITY CONSISTENT WITH IAEA GUIDELINES
2. ADVERSARY DETECTION ONLY
3. NO PROTECTION AGAINST INSIDER
4. MULTIPLE FACILITY ATTACKS NOT PROBABLE
5. GREATER THAN CATEGORY II QUANTITIES (UNIRRADIATED) TO BE PROTECTED UNDER 73.60

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CONSERVATISM OF PRESENT POSITION HAS DECREASED BECAUSE:

o SIMULTANEOUS MULTIPLE EVENTS

- BEIRUT (TWO BOMBS WITHIN 2 HOURS)
 - KUWAIT (SIX BOMBS WITHIN 2 HOURS)
- } FOREIGN

o RECENT COORDINATED ATTACKS ESCALATED TO MASSIVE PERSONNEL CASULTIES (FOREIGN)

o LACK OF SPECIFICITY IN INTELLIGENCE INFORMATION (FOREIGN)

BEARING IN MIND THAT:

- o THERE IS NO KNOWN SPECIFIC DOMESTIC THREAT DIRECTION TOWARD LICENSE NUCLEAR FACILITY BASED ON DATA AVAILABLE TO NRC

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RECOMMENDED ACTIONS

STAFF REVIEW SHORT TERM ALTERNATIVES TO RESTORE LEVEL OF SECURITY CONSERVATISM AT CATEGORY II FACILITIES, TO INCLUDE THE FOLLOWING MEASURES:

LIMITED HOLDINGS OF FRESH FUEL

TAMPER-PROOFED DETECTION SYSTEMS

TWO-MAN PRESENCE WHILE MATERIAL ACCESSIBLE

IMPROVED COMMUNICATIONS CAPABILITY

CORE ACCESS BARRIERS

LONG TERM - CONVERSION TO LOW ENRICHED URANIUM WITH GOVERNMENT ASSISTANCE IF NECESSARY

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Comm. Arselstine

Category III - 0-1 kg. of unirradiated

Category II - 1-5 kg. of unirradiated

Category I - > 5 kg. of unirradiated

if irradiated, give credit.

if irradiated to 100 R, can get down
to Category III.

Cook - security vs. safety

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