

ALTERNATIVES FOR INDEPENDENT VERIFICATION
TESTING OF ENVIRONMENTALLY QUALIFIED EQUIPMENT

8007240 393

ALTERNATIVES CONSIDERED

- ALTERNATIVE 1 - NRC ENVIRONMENTAL TEST FACILITY
- ALTERNATIVE 2 - CONTRACT ENVIRONMENTAL TESTING
- ALTERNATIVE 3 - REVIEW AND WITNESS TESTING BY INDUSTRY
- ALTERNATIVE 4 - COMBINATION - ALTERNATIVES 1 AND 2
- ALTERNATIVE 5 - COMBINATION - ALTERNATIVES 1 AND 3
- ALTERNATIVE 6 - COMBINATION - ALTERNATIVES 2 AND 3

SCOPE

28 GENERIC EQUIPMENT CATEGORIES

1 - 6 MANUFACTURERS/CATEGORY

> 140 ITEMS

TESTING CONSISTENT WITH REQUIREMENTS OF IEEE 323 - 1974

ASSUMED TEST PROFILE

EVALUATION CRITERIA

1. LEVEL OF NRC INVOLVEMENT
2. IMMEDIACY
3. COSTS
4. CONTROL - PRIOR TESTS VERIFICATION
5. FLEXIBILITY
6. DEGREE OF CONTROL
7. LONG-TERM USE POTENTIAL
8. STAFFING REQUIREMENTS
9. HISTORIC NRC FUNCTION
10. DEPENDENCE ON SUPPLIER/VENDOR
11. CONFLICT OF INTEREST

EVALUATION OF ALTERNATIVES

ALTERNATIVE 1:

PRO - . MAXIMUM POTENTIAL DIRECT INVOLVEMENT
 . CONTROL OF PRIOR TESTS VERIFICATION
 . FLEXIBILITY
 . DEGREE OF CONTROL
 . CONFLICT OF INTEREST
CON - . COST
 . IMMEDIACY
 . HISTORICAL FUNCTION

ALTERNATIVE 2:

PRO - . HIGHLY POSITIVE - DIRECT NRC INVOLVEMENT
CON - . IMMEDIACY
 . HISTORICAL FUNCTION
 . CONFLICT OF INTEREST - PARTICIPANT

ALTERNATIVE 3:

- PRO - . HISTORICAL FUNCTION
- . CONFLICT OF INTEREST
- . IMMEDIACY
- CON - . STAFFING
- . CONTROL/FLEXIBILITY

ALTERNATIVE 4:

- PRO - . NO CLEAR ADVANTAGE
- CON - . IMMEDIACY
- . COSTS

ALTERNATIVE 5:

- PRO - . IMMEDIACY
- . EVENTUALLY MORE DIRECT INVOLVEMENT
- CON - . COST

ALTERNATIVE 6:

- PRO - . IMMEDIACY
- . COST
- CON - . LESS DIRECT INVOLVEMENT

STUDY RESULTS

. NO COMPLETE ADOPTION OF SINGLE ALTERNATIVE RECOMMENDED

-- COST

-- TIME

. IMMEDIATELY ADOPT ALTERNATIVE 3-TYPE APPROACH

. ALTERNATIVE 3 COSTS RELATED TO WORKLOAD

. ALTERNATIVES 1 AND 2 COSTS AS RELATED TO WORKLOAD

. EMPHASIZED DEDICATED STAFF

STAFF VIEWS

1. 10 TO 20% OF THE HIGHEST PRIORITY EQUIPMENT.
2. MODIFIED ALTERNATIVE 6 RECOMMENDED.
 - IMMEDIATE FEEDBACK - MONTHS VS. UP TO 5 YEARS.
 - LEAST COSTLY - FACTOR OF 20 TO 30 LESS.
 - IMPROVE STANDARDS.
 - UPGRADE TESTING.
 - AUGMENTED NRC INDEPENDENCE.
 - FLEXIBILITY/OTHER KINDS OF TESTING.

STAFF'S RECOMMENDED PROGRAM

- CONDUCT INDEPENDENT VERIFICATION TESTS
- PERFORM INDEPTH INSPECTIONS AND WITNESS TESTS
- IMPROVED TESTING LABORATORY PERFORMANCE

PROPOSED PROGRAM COSTS

	1980		1981		1982	
	<u>\$</u>	<u>STAFF</u>	<u>\$</u>	<u>STAFF</u>	<u>\$</u>	<u>STAFF</u>
IE	150K	3 MY	500K	6 MY	750K	6 MY
NRR		1.5 MY		1.5 MY		1.5 MY
SD		1 MY		1 MY		1 MY