



U.S. ATOMIC ENERGY COMMISSION

1/8/73

# REGULATORY GUIDE

DIRECTORATE OF REGULATORY STANDARDS

## REGULATORY GUIDE 3.3

### QUALITY ASSURANCE PROGRAM REQUIREMENTS FOR FUEL REPROCESSING PLANTS

#### A. INTRODUCTION

Appendix B to 10 CFR Part 50, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," establishes quality assurance requirements for the design, construction, and operation of nuclear power plant and fuel reprocessing plant structures, systems and components. This regulatory guide describes an acceptable method of complying with the Commission's regulations with regard to overall quality assurance program requirements for fuel reprocessing plants.

#### B. DISCUSSION

Subcommittee N45-3, Nuclear Quality Assurance Standards, (formerly ad hoc Committee N45-3.7) of the American National Standards Institute, Standards Committee N45, Reactor Plants and Their Maintenance, under the sponsorship of the American Society of Mechanical Engineers, has developed a standard which includes general requirements and guidance for the establishment and execution of quality assurance programs during the design, construction, and operation phases of nuclear power plants. This standard was approved by the American National Standards Committee N45 and its Secretariat, and it was subsequently approved and designated N45.2-1971 by the American National Standards Institute on October 20, 1972.

This standard is adaptable to fuel reprocessing plants as it was prepared to satisfy the intent and amplify the requirements of AEC quality assurance regulations and provides general requirements and guidance for establishment and execution of quality assurance programs.

#### C. REGULATORY POSITION

The general requirements and guidelines for establishing and executing quality assurance programs for nuclear power plants which are included in ANSI N45.2-1971, "Quality Assurance Program Requirements for Nuclear Power Plants"<sup>1</sup> may be adapted to fuel reprocessing plants and are generally acceptable and provide an adequate basis for complying with the program requirements of Appendix B to 10 CFR Part 50, applicable to fuel reprocessing plants. When adapting ANSI N45.2-1971 to fuel reprocessing plants the term fuel reprocessing plants should be substituted as applicable wherever specific reference is made to the term nuclear power plants).

<sup>1</sup> Copies may be obtained from the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, N.Y. 10017.

#### USAEC REGULATORY GUIDES

Regulatory Guides are issued to describe and make available to the public methods acceptable to the AEC Regulatory staff of implementing specific parts of the Commission's regulations, to delineate techniques used by the staff in evaluating specific problems or postulated accidents, or to provide guidance to applicants. Regulatory Guides are not substitutes for regulations and compliance with them is not required. Methods and solutions different from those set out in the guides will be acceptable if they provide a basis for the findings requisite to the issuance or continuance of a permit or license by the Commission.

Published guides will be revised periodically, as appropriate, to accommodate comments and to reflect new information or experience.

Copies of published guides may be obtained by request indicating the divisions desired to the U.S. Atomic Energy Commission, Washington, D.C. 20545, Attention: Director of Regulatory Standards. Comments and suggestions for improvements in these guides are encouraged and should be sent to the Secretary of the Commission, U.S. Atomic Energy Commission, Washington, D.C. 20545, Attention: Chief, Public Proceedings Staff.

The guides are issued in the following ten broad divisions:

- |                                   |                        |
|-----------------------------------|------------------------|
| 1. Power Reactors                 | 6. Products            |
| 2. Research and Test Reactors     | 7. Transportation      |
| 3. Fuels and Materials Facilities | 8. Occupational Health |
| 4. Environmental and Siting       | 9. Antitrust Review    |
| 5. Materials and Plant Protection | 10. General            |