

ATTACHMENT 2

Letter from C. R. Steinhardt (WPSC)

to

Document Control Desk (NRC)

Dated

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Proposed Amendment 140

Affected TS Pages:

TS 5.3-1

TS 5.3-2 (delete page)

TS 5.4-1

5.3 REACTOR CORE

APPLICABILITY

Applies to the reactor core.

OBJECTIVE

To define those design features which are essential in providing for safe reactor core operations.

SPECIFICATION

a. Fuel Assemblies

The reactor shall contain 121 fuel assemblies. Each assembly shall consist of a matrix of zircalloy clad fuel rods with an initial composition of natural or slightly enriched uranium dioxide (UO₂) as fuel material. Limited substitutions of zirconium alloy or stainless steel filler rods for fuel rods, in accordance with NRC-approved applications of fuel rod configurations, may be used. Fuel assemblies shall be limited to those fuel designs that have been analyzed with applicable NRC staff approved codes and methods and shown by tests or analyses to comply with all fuel safety design bases. A limited number of lead test assemblies that have not completed representative testing may be placed in nonlimiting core regions.

b. Control Rod Assemblies

The reactor core shall contain 29 control rod assemblies. The control material shall be silver indium cadmium.

5.4 FUEL STORAGE

APPLICABILITY

Applies to the capacity and storage arrays of new and spent fuel.

OBJECTIVE

To define those aspects of fuel storage relating to prevention of criticality in fuel storage areas.

SPECIFICATION

a. Criticality

1. The spent fuel storage racks are designed and shall be maintained with:
 - a. Fuel assemblies having a maximum enrichment of 52.3 grams Uranium-235 per axial centimeter;
 - b. $k_{\text{eff}} < 0.95$ if fully flooded with unborated water, which includes an allowance for uncertainties.
2. The new fuel storage racks are designed and shall be maintained with:
 - a. Fuel assemblies having a maximum enrichment of 49.2 grams Uranium-235 per axial centimeter;
 - b. $k_{\text{eff}} < 0.95$ if fully flooded with unborated water, which includes an allowance for uncertainties;
 - c. $k_{\text{eff}} < 0.98$ if moderated by aqueous foam, which includes an allowance for uncertainties.
3. The spent fuel pool is filled with borated water at a concentration to match that used in the reactor refueling cavity and refueling canal during REFUELING OPERATIONS or whenever there is fuel in the pool.

b. Capacity

The spent fuel storage pool is designed with a storage capacity of 990 assemblies and shall be limited to no more than 982 fuel assemblies.