



THE UNIVERSITY OF TEXAS AT AUSTIN
COLLEGE OF ENGINEERING
AUSTIN, TEXAS 78712

*Department of Mechanical Engineering
Department Office, 512 471-1136
Chairman, 471-1131*

March 14, 1985

Standardization and Special Projects Branch
Division of Licensing
Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: Cecil Thomas
RE: Docket #50-602

Dear Sir:

The enclosed information is provided to supplement The University of Texas at Austin application submittal (letter dated November 9, 1984 and subsequent amendment letter dated February 27, 1985).

Sincerely,

T. L. Bauer

TLB:jc

cc: G. Fonken
D. Klein
H. Walls

8503190364 850314
PDR ADOCK 05000602
A PDR

A020
1/1

SUPPLEMENTAL INFORMATION

(March 14, 1985)

- A. Control rods are fabricated of sintered compacts of B_4C into solid rods roughly 98% the theoretical density of B_4C . Borated graphite will not be used although it has been used in other facilities.
3. Heating, cooling and ventilation air systems are central units with air temperature controlled by steam or water. A central boiler in the building provides steam for each of the air handling units (4 units). Chilled water for cooling is provided by a central chilling unit at the research center for each of the air handling units (4 units). Conditioned air is generated by mixing the air volumes passing through heated and chilled coils in the units. One air handling unit with no return air supplies the reactor room. Another air handling unit with return air serves the areas directly adjacent to the reactor room. Two additional air handling units are installed to handle the office and laboratory areas of the building.

C. Control Room Annunciator
(for auxiliary systems)

1.	<u>Pool Water System</u>	Type of Action	Typical Set Point
a.	Pool Lever (above top grid plate)	low	20 ft.
b.	Pool Temperature (bulk water coolant)	high	110°F

- | | | | |
|----|---|--------------|-----------|
| c. | Water Coolent Flow
(loss of coolant pump) | low | 0 gal/sec |
| d. | Heat Exchanger Pressure
(secondary to primary leakage) | differential | 4 psia |

2. Other Systems

- | | | | |
|----|---------------------------------|--------|----------|
| a. | Area Radiation Monitors | high | 5 mr/hr |
| b. | Air Particulate Activity | high | 5000 cpm |
| c. | Reactor Room Entry | status | OPEN |
| d. | Ventilation System
Operation | status | ON |

3. Scram/channels

- a. As specified in Tech Spec. Section 3.2.3 (dated 9/84).
- b. Status condition of safety channels - scram on failure status of 1 out of 2.
- c. Status condition of rod control system - scram on communications failure.
- d. External status conditions - scram on auxiliary input signal such as an experiment protection system.
- e. Reactor period - scram for less than 3 second period in non pulse mode.