TECHNICAL SPECIFICATIONS

10. The total reactivity of 2.5% in Specification 10 places a reasonable upper limit on the worth of all experiments which is compatible with the allowable excess reactivity and the shutdown margin and is consistent with the functional mission of the reactor.

3.2 REACTOR INSTRUMENTATION

Applicability

This specification applies to the instrumentation which must be available and operable for safe operation of the reactor.

Objective

The objective is to require that sufficient information be available to the operator to assure safe operation of the reactor.

Specification

The reactor shall not be operated unless the measuring channels listed in the following table are operable:

Measuring Channel Pool-Water Level	Minimum Required 1	Operating Mode in Which Required All-modes	
Startup Count Rate	1	All modes (during reactor startup)	
Log N (Period)	1	All modes	
Power Level (Linear N)	2	All modes	
Reactor Coolant Inlet	1	Forced convection	
Temperature			
Coolant Flow Rate	1	Forced convection	
Reactor Pool Temperature	1	Natural convection	

TECHNICAL SPECIFICATIONS

Bases

The neutron detectors assure that measurements of the reactor pool level are adequately displayed during reactor startup and low and high power operation. The temperature and flow detectors give information to the operator to prevent the exceeding of a Safety Limit.

3.3 REACTOR SAFETY SYSTEM

Applicability

This specification applies to the reactor safety system channels.

Objective

To require the minimum number of reactor safety system channels that must be operable in order to assure safe operation of the reactor.

Specification

The reactor shall not be operated unless the reactor safety system channels described in the following table are operable.

Reactor Safety System Component/Channel Startup Count Rate	Minimum Required 1		Operating Mode Which Required Reactor startup in all modes
Reactor Period	1	Automatic reactor scram with ≤ 3 sec period Control blade inhib ≤ 15 sec period	