TABLE 3.3-5 (Continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

TIATING SIGNAL AND FUNCTION	RESPONSE . IME IN SECONDS
Steam Generator Pressure-Low	
a. Main Steam Isolation b. Feedwater Isolation	≤ 6.9 ≤ 80
Refueling Water Tank-Low	
a. Containment Sump Recirculation	≤ 80
Reactor Trip	
a. Feedwater Flow Reduction to 5%	≤ 20
Loss of Power	
 a. 4.16 kv Emergency Bus Under- voltage (Loss of Voltage) 	≤ 2.2***
 b. 4.16 kv Emergency Bus Under- voltage (Degraded Voltage) 	≤ 8.4***
Steam Generator Level-Low	
a. Steam Driven AFW Pump	.≤ 180
b. Motor Driven AFW Pump	≤ 180
Steam Generator & P-High	
a. Auxiliary Feedwater Isolation	≤ 20.0
	 a. Main Steam Isolation b. Feedwater Isolation c. Refueling Water Tank-Low a. Containment Sump Recirculation Reactor Trip a. Feedwater Flow Reduction to 5% Loss of Power a. A.16 kv Emergency Bus Under- voltage (Loss of Voltage) b. A.16 kv Emergency Bus Under- voltage (Degraded Voltage) Steam Generator Level-Low a. Steam Driven AFW Pump b. Motor Driven AFW Pump

TABLE NOTATION

- Diesel generator starting and sequence loading delays included. *
- Diesel generator starting and sequence loading delays not included. ** Offsite power available.
- *** Response time measured from the incidence of the undervoltage condition to the diesel generator start signal.
- (1) Header fill ime not included.

9102280067 910219 PDR ADOCK 05000317 PDR

CALVERT CLIFFS - UNIT 1

3/4 3-21 Amendment No. 40/84/71/72/ 88,149

TABLE 3.3-5 (Continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

<u>IN1</u>	TIATING SIGNAL AND FUNCTION	RESPONSE TIME IN SECONDS
6.	Steam Generator Fressure-Low	
	a. Main Steam Isolation	≤ 6.9
	b. Feedwater Isolation	≤ 80
7.	Refueling Water Tank-Low	
	a. Containment Sump Recirculation	≤ 80
8.	Reactor lrip	
	a. Feedwater Flow Reduction to 5%	< 20
9.	Loss of Power	
	 a. 4.16 kv Emergency Bus Under- voltage (Loss of Voltage) 	< 2.2 ** *
	 b. 4.16 kv Emergency Bus Under- voltage (Degraded Voltage) 	≤ 8.4***
10.	Steam Generator Level - Low	
	a. Motor Driven AFW Pump	≤ 180
	b. Steam Driven AFW Pump	≤ 180
11.	Steam Generator A P-High	
	a. Auxiliary Feedwater Isolation	≤ 20.0

TABLE NOTATION

- Diesel generator starting and sequence loading delays included. *
- Diesel generator starting and sequence loading delays \underline{not} included. Offsite power available. **
- *** Response time measured from the incidence of the undervoltage condition to the diesel generator start signal.