

TABLE 4.2-1 (cont'd)

<u>Instrument Channel</u>	<u>Instrument Functional Test⁽²⁾</u>	<u>Calibration⁽²⁾</u>	<u>Instrument Check⁽²⁾</u>
HPCI Isolation			
1. Steamline high flow	(1) (9) (10)	(9) (10)	None
2. Steamline area high temperature	Refueling outage	Refueling outage	None
3. Low reactor pressure	(1) (10)	(10)	None
Reactor Building Ventilation System Isolation and Standby Treatment System Initiation			
1. Refueling floor radiation monitors	(1)	Once/3 months	Once/day
Steam Jet Air Ejector Off-Gas Isolation			
1. Off-gas radiation monitors	(1) (4)	Refueling outage	Once/day
Control Room Ventilation System Isolation			
1. Reactor low water level	(1)	Once/3 months	Once/day
2. Drywell high pressure	(1)	Once/3 months	None
3. Main steamline high flow	(1)	Once/3 months	Once/day
4. Ventilation exhaust duct	(1)	Once/3 months	Once/day

Notes:

- Initially once per month until exposure hours (M as defined on Figure 4.1-1) are 2.0×10^5 ; thereafter, according to Figure 4.1-1 with an interval not less than 1 month nor more than 3 months. The compilation of instrument failure rate data may include data obtained from other boiling water reactors for which the same design instrument operates in an environment similar to that of Quad Cities Units 1 and 2.
- Functional tests, calibrations, and instrument checks are not required when these instruments are not required to be operable or tripped.
- This instrumentation is excepted from the functional test definition. The function test shall consist of injecting a simulated electric signal into the measurement channel.
- This instrument channel is excepted from the functional test definitions and shall be calibrated using simulated electrical signals once every 3 months.
- Functional tests shall be performed before each startup with a required frequency not to exceed once per week. Calibrations shall be performed during each startup or during controlled shutdowns with a required frequency not to exceed once per week.
- The positioning mechanism shall be calibrated every refueling outage.
- Logic system functional tests are performed as specified in the applicable section for these systems.
- Functional tests shall include verification of operation of the degraded voltage. 5 minute timer and 7 second inherent timer.
- Verification of the time delay setting of $3 \leq \tau \leq 10$ seconds shall be performed during each refueling outage.
- Trip units are functionally tested monthly. A calibration of the trip unit is to be performed concurrent with the functional testing. Transmitters are calibrated once per operating cycle.