

- (c) for each percent that the magnitude of  $q_t - q_b$  exceeds -17 percent, the  $\Delta T$  trip setpoint shall be automatically reduced by an equivalent of 2.0 percent of rated power.

(5) Overpower  $\Delta T \left( \frac{1}{1+\tau_3 S} \right)$

$$\leq \Delta T_o \left[ K_4 - K_5 \left( \frac{\tau_5 S}{\tau_5 S + 1} \right) \left( \frac{1}{1+\tau_4 S} \right) T - K_6 \left[ T \left( \frac{1}{1+\tau_4 S} \right) - T' \right] - f(\Delta I) \right]$$

where

$\Delta T_o$  = indicated  $\Delta T$  at rated power, °F

T = average temperature, °F

T' = 574.2°F

$K_4 \leq$  1.089 of rated power

$K_5$  = 0.0262 for increasing T

= 0.0 for decreasing T

$K_6$  = 0.00123 for  $T \geq T'$

= 0.0 for  $T < T'$

$\tau_5$  = 10 sec

f ( $\Delta I$ ) as defined in (4) above,

$\tau_3$  = 2 sec for Rosemont or equivalent RTD

= 0 sec for Sostman or equivalent RTD

$\tau_4$  = 2 sec for Rosemont or equivalent RTD

= 0 sec for Sostman or equivalent RTD

- (6) Undervoltage -  $\geq 75$  percent of normal voltage

- (7) Indicated reactor coolant flow per loop -  $\geq 90$  percent of normal indicated loop flow

- (8) Reactor coolant pump motor breaker open

(a) Low frequency set point  $\geq 57.5$  cps

(b) Low voltage set point  $\geq 75$  percent of normal voltage.

15.2.3-3