

TABLE 2.2-1 (Continued)  
TABLE NOTATIONS (Continued)

NOTE 3: (Continued)

- $K_0$  = Overpower  $\Delta T$  reactor trip heatup setpoint penalty coefficient as presented in the Core Operating Limits Report for  $T > \frac{590.8^\circ\text{F}}{T''}$  and  $K_0 = 0$  for  $T \leq \frac{590.8^\circ\text{F}}{T''}$ ,
- $T$  = As defined in Note 1,
- $T''$  = Indicated  $T_{\text{avg}}$  at RATED THERMAL POWER (Calibration temperature for  $\Delta T$  instrumentation,  $\leq 590.8^\circ\text{F}$ ),
- $S$  = As defined in Note 1,

and  $f_2(\Delta I)$  is a function of the indicated differences between top and bottom detectors of the power-range neutron ion chambers; with gains to be selected based on measured instrument response during plant startup tests such that:

- (i) for  $q_t - q_b$  between the "positive" and "negative"  $f_2(\Delta I)$  breakpoints as presented in the Core Operating Limits Report;  $f_2(\Delta I) = 0$ , where  $q_t$  and  $q_b$  are percent RATED THERMAL POWER in the top and bottom halves of the core respectively, and  $q_t + q_b$  is total THERMAL POWER in percent of RATED THERMAL POWER;
- (ii) for each percent  $\Delta I$  that the magnitude of  $q_t - q_b$  is more negative than the  $f_2(\Delta I)$  "negative" breakpoint presented in the Core Operating Limits Report, the  $\Delta T$  Trip Setpoint shall be automatically reduced by the  $f_2(\Delta I)$  "negative" slope presented in the Core Operating Limits Report; and
- (iii) for each percent  $\Delta I$  that magnitude of  $q_t - q_b$  is more positive than the  $f_2(\Delta I)$  "positive" breakpoint presented in the Core Operating Limits Report the  $\Delta T$  Trip Setpoint shall be automatically reduced by the  $f_2(\Delta I)$  "positive" slope presented in the Core Operating Limits Report.

NOTE 4: The channel's maximum Trip Setpoint shall not exceed its computed Trip Setpoint by more than 3.0% (Unit 1) and 3.3% (Unit 2) of Rated Thermal Power.

CATAMBA - UNITS 1 & 2

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Amendment No. 109

(Unit 1)  
(Unit 2)

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TABLE 2.2-1 (Continued)  
TABLE NOTATIONS (Continued)

NOTE 3: (Continued)

- $K_6$  = Overpower  $\Delta T$  reactor trip heatup setpoint penalty coefficient as presented in the Core Operating Limits Report for  $T > T''$  and  $K_6 = 0$  for  $T \leq T''$ ,
- $T$  = As defined in Note 1,
- $T''$  = Indicated  $T_{avg}$  at RATED THERMAL POWER (Calibration temperature for  $\Delta T$  instrumentation,  $\leq 590.8^\circ\text{F}$ ),
- $S$  = As defined in Note 1,

and  $f_2(\Delta I)$  is a function of the indicated differences between top and bottom detectors of the power-range neutron ion chambers; with gains to be selected based on measured instrument response during plant startup tests such that:

- (i) For  $q_t - q_b$  between the "positive" and "negative"  $f_2(\Delta I)$  breakpoints as presented in the Core Operating Limits Report;  $f_2(\Delta I) = 0$ , where  $q_t$  and  $q_b$  are percent RATED THERMAL POWER in the top and bottom halves of the core respectively, and  $q_t + q_b$  is total THERMAL POWER in percent of RATED THERMAL POWER;
- (ii) For each percent  $\Delta I$  that the magnitude of  $q_t - q_b$  is more negative than the  $f_2(\Delta I)$  "negative" breakpoint presented in the Core Operating Limits Report, the  $\Delta T$  Trip Setpoint shall be automatically reduced by the  $f_2(\Delta I)$  "negative" slope presented in the Core Operating Limits Report; and
- (iii) For each percent  $\Delta I$  that the magnitude of  $q_t - q_b$  is more positive than the  $f_2(\Delta I)$  "positive" breakpoint presented in the Core Operating Limits Report, the  $\Delta T$  Trip Setpoint shall be automatically reduced by the  $f_2(\Delta I)$  "positive" slope presented in the Core Operating Limits Report.

NOTE 4: The channel's maximum Trip Setpoint shall not exceed its computed Trip Setpoint by more than 3.0% (Unit 1) and 3.3% (Unit 2) of Rated Thermal Power.