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PNV

OCONEE 3 CYCLE 12
STARTUP REPORT

ENCLOSURE 2.0

INTEGRAL GROUP ROD WORTH MEASUREMENTS

| PARAMETER | MEASURED VALUE (% $\Delta k/k$) | PREDICTED VALUE (% $\Delta k/k$) | DEVIATION* (%) | ACCEPTANCE CRITERIA |
|--------------------------|--|---|-------------------|------------------------|
| Gp 7 Integral Worth | - 0.733 | - 0.762 | + 4.0 | $\pm 15\%$ Deviation |
| Gp 6 Integral Worth | - 0.892 | - 0.948 | + 6.2 | $\pm 15\%$ Deviation |
| Gp 5 Integral Worth | - 1.080 | - 1.072 | + 0.7 | $\pm 15\%$ Deviation |
| Gp 5-7 Integral Worth | - 2.705 | - 2.782 | + 2.9 | $\pm 10\%$ Deviation |

* % Deviation = $\frac{\text{predicted-measured}}{\text{measured}} \times 100$

REACTIVITY COEFFICIENTS

| PARAMETER | CONDITIONS | MEASURED VALUE | PREDICTED VALUE | DEVIATION (Meas - Pred) | ACCEPTANCE CRITERIA |
|---|---|--|--|--|--|
| Hot Zero Power Temperature Coefficient (ARO) | $T_{av} = 537^{\circ}\text{F}$ Gp 7 @ 81% wd Gp 8 @ 35% wd 1653 ppmB | - 1.61×10^{-6} $\Delta k/k/^{\circ}\text{F}$ | - 5.87×10^{-6} $\Delta k/k/^{\circ}\text{F}$ | + 4.26×10^{-6} $\Delta k/k/^{\circ}\text{F}$ | Deviation Less than $\pm 0.3 \times 10^{-4} \Delta k/k/^{\circ}\text{F}$ |
| Hot Zero Power Moderator Temperature Coefficient (ARO) | | + 1.46×10^{-5} $\Delta k/k/^{\circ}\text{F}$ | + 3.25×10^{-6} $\Delta k/k/^{\circ}\text{F}$ | + 1.13×10^{-5} $\Delta k/k/^{\circ}\text{F}$ | Deviation Less than $\pm 0.3 \times 10^{-4} \Delta k/k/^{\circ}\text{F}$ and Measured Value \leq $+ 0.5 \times 10^{-4} \Delta k/k/^{\circ}\text{F}$ |