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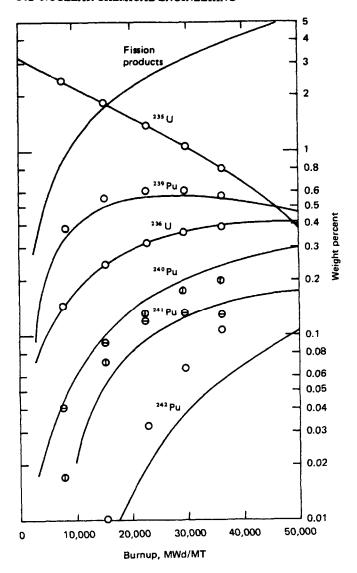


Figure 3.29 Change of nuclide concentrations in PWR with burnup. (0) Equations of this chapter; (0) 240 Pu, equations of this chapter; (1) 241 Pu, equations of this chapter; (1) computer code CELL.

concentration increases, as a result of its very high absorption cross section at resonance energies, an effect that the equations of this chapter cannot take into account.

## 6.7 Reactivity Changes in PWR

Despite the inability of these equations to represent accurately the concentration of higher plutonium isotopes, the reactivity-limited burnup attainable from fuel initially containing 3.2