

N169. Radiation Field Evaluations

EPRI technical report TR-100306, *Evaluation of PWR Radiation Fields: 1986-1990* was issued in April. The report contains a summary of the radiation field data, using Standard Radiation Monitoring Program (SRMP), and an evaluation to determine the factors which influence the buildup of radiation fields in PWRs. A Dose Rate Index (DRI) was established to semi-quantitatively determine the relative value of plant design and operating factors. Based on available data, the following conclusions are presented:

- Inconel versus Zircaloy fuel grids (DRI = 1.24)
- Inconel versus conversion to Zircaloy fuel grids (DRI = 1.16)
- Uncoordinated versus coordinated primary coolant chemistry (DRI = 1.18)
- Inconel fuel grids with high cobalt impurity versus those without high cobalt impurity (DRI = 1.22)

Taken from "Radiation Field Evaluations," Radiation Control News, Eds: H. Ocken and C.J. Wood, No. 14, June 1992 (EPRI, 3412 Hillview Ave., Palo Alto, CA 94303). Report available from EPRI Distribution Center, (510) 934-4212.