

Effect of Plutonium on Fuel Nuclear Characteristics

[Fuel Rod Heat Distribution]

Because plutonium reacts readily with neutrons, the output of MOX fuel rods is high.



[Control Rod Efficacy]

Because plutonium readily absorbs neutrons, the number of neutrons absorbed by the control rods is reduced.



[Response to Disturbance]

If an anomaly occurs, causing an increase in pressure in the reactor, the output tends to be greater than traditional models.



If fuel rods and assemblies are deployed properly, a sufficient margin to limits can be achieved, just as with a uranium reactor core.