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W. G. Hairston, III
Senior Vice President
Nuclear Operations

September 17, 1990

Alabama Power
the southern electric system

Docket No. 50-348

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Joseph M. Farley Nuclear Plant
Fluence at Vessel Inner Radius

Per a verbal request made by the NRC Project Manager for Farley Nuclear Plant, Alabama Power Company provides as an enclosure to this letter a graph of Fast Neutron Fluence as a function of Effective Full Power Years (EFPY) for Unit 1. Specifically, the fluence value used as a basis for the current Unit 1 heatup and cooldown curves for 16 EFPY is 2.02E19 n/cm^2.

If there are any questions, please advise.

Respectfully submitted,

W. G. Hairston, III

VGH,III/BHW:mgd 22.32

Enclosure

cc: Mr. S. D. Ebneter
Mr. S. T. Hoffman
Mr. G. F. Maxwell

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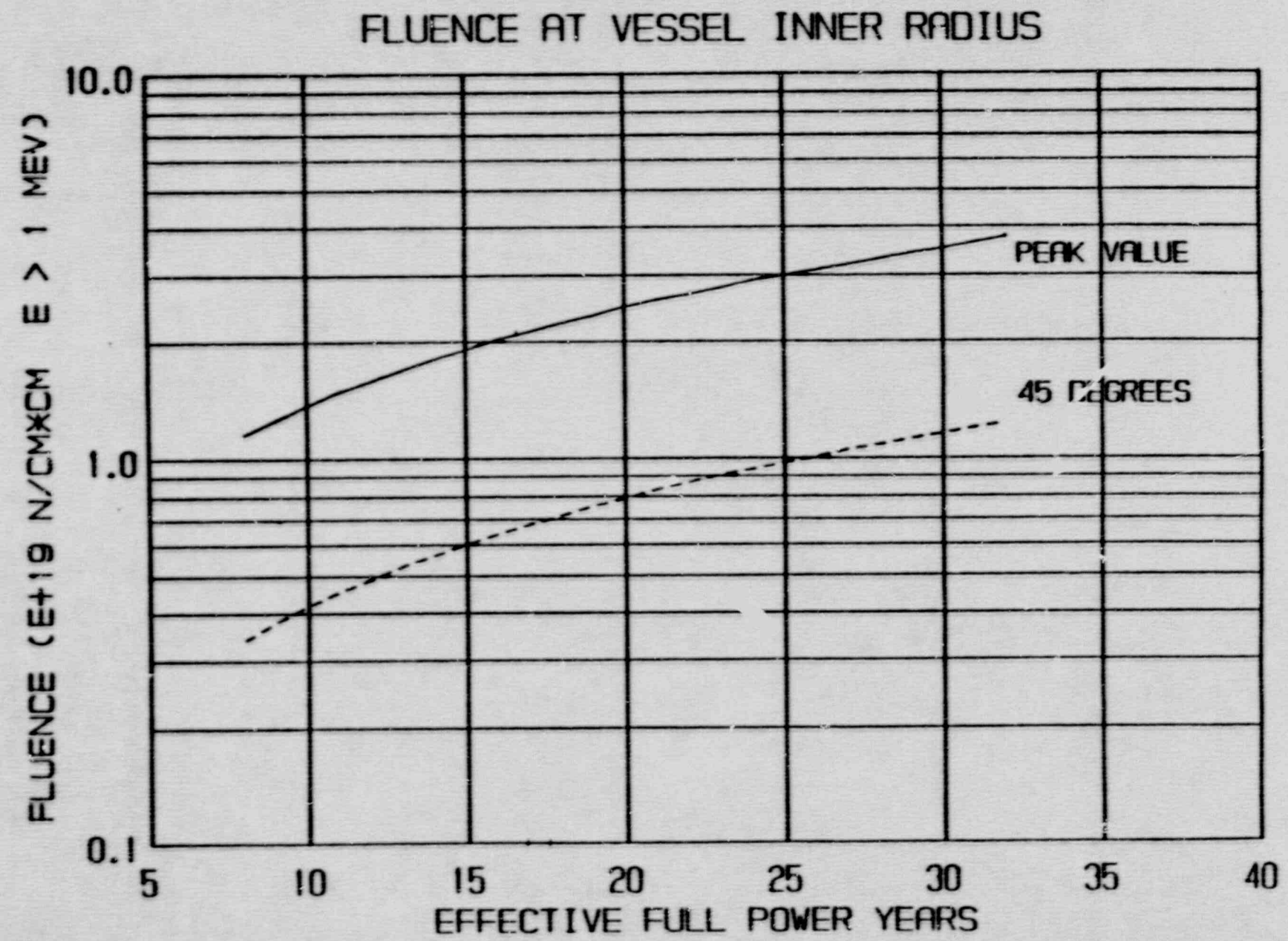

Fast Neutron Fluence (E > 1 MeV) as a Function of Full Power Service Life (EFPY)