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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 OWSLEY, G.F. Exxon Nuclear Co., Inc. (subs. of Exxon Corp.)
 RECIP. NAME RECIPIENT AFFILIATION
 LICCARDO, R. Reactor Systems Branch

SUBJECT: Forwards Table 1 providing reactivity parameters for Unit 2, consistent w/parameters used in FSAR issued in Jul 1982.

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December 20, 1982

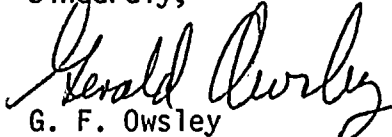
50-316

Robert Liccardo
Reactor System Branch
U.S. Nuclear Regulator Commission
Washington, DC 20555

Dear Robert:

The attached "Table 1" provides reactivity parameters for D. C. Cook Unit 2 in units consistent with those used in the UFSAR for the D. C. Cook Plant issued in July 1982. These are being supplied as you requested. Please contact Fred Adams [(509) 375-8178] if you have further questions regarding this matter.

Sincerely,


G. F. Owsley

GF0:rl

cc: Dave Wigginton
Juan Castresano

Attachment

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TABLE 1

Neutron Kinetics Parameters Employed in the
D. C. Cook Unit 2 Plant Transient Analysis
(Except Steam Line Break)

	<u>BOC</u>	<u>EOC</u>
Moderator Temperature Coefficient, $10^{-5} \Delta\rho/^{\circ}\text{F}$	+6.25	-48.8
Moderator Density Coefficient, $\Delta\rho/(\text{g}/\text{cm}^3)$	- .056	+ .44
Doppler Temperature Coefficient, $10^{-5} \Delta\rho/^{\circ}\text{F}$	- .8	-1.36
Doppler Power Coefficient, $10^{-5} \Delta\rho/\% \text{ POWER}$	-6.2	- 9.8

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