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 FACIL:50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
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SUBJECT: Suppl to 881031 special rept re annual land use census  
 conducted in 1988.

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AEP:NRC:1079A  
10 CFR 50 Appendix I

Donald C. Cook Nuclear Plant Units 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
TECHNICAL SPECIFICATION (T/S) SPECIAL REPORT - LAND  
USE CENSUS (T/S 3.12.2)

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

Attn: A. B. Davis

December 5, 1988

Dear Mr. Davis:

This letter is a supplement to our letter of October 31, 1988 (AEP:NRC:1079), that submitted a Special Report pursuant to our T/S Section 3.12.2 regarding our annual land use census conducted in 1988. Subsequent to our October submittal we have identified an off-site location that yields a higher calculated dose through the milk pathway than previously calculated in accordance with T/S 4.11.2.3. The newly calculated doses from the milk consumption pathway continue to be well within T/S limits and the limits of 10 CFR 50, Appendix I.

Discussion

As a result of a survey performed by the Cook Nuclear Plant Environmental Section, a milk animal (goat) was identified in land sector F at a distance of approximately 3800 meters (2.36 miles) from the plant centerline. This location is nearer to the plant than the location previously used for calculating off-site doses through the milk pathway. Calculations of the dose commitment due to ingestion of goat's milk in sector F for the critical population groups were performed in order to provide a comparison to those reported in the Semi-Annual Radioactive Effluent Release Report for the first half of 1988. The results of these calculations are as follows:

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<u>Population</u>	<u>1988-First Quarter</u>		<u>1988-Second Quarter</u>	
	<u>Reported</u> <u>Doses (REM)</u>	<u>Revised</u> <u>Doses (REM)</u>	<u>Reported</u> <u>Doses (REM)</u>	<u>Revised</u> <u>Doses (REM)</u>
Adult	$2.10 \times 10^{-7}$	$7.73 \times 10^{-7}$	$3.10 \times 10^{-6}$	$1.14 \times 10^{-5}$
Teen	$3.40 \times 10^{-7}$	$1.25 \times 10^{-6}$	$4.90 \times 10^{-6}$	$1.80 \times 10^{-5}$
Child	$6.60 \times 10^{-7}$	$2.43 \times 10^{-6}$	$9.60 \times 10^{-6}$	$3.53 \times 10^{-5}$
Infant	$1.60 \times 10^{-6}$	$5.89 \times 10^{-6}$	$2.30 \times 10^{-5}$	$8.46 \times 10^{-5}$

As can be seen from the above table, the revised doses calculated for exposure through the milk pathway are well within 10 CFR 50, Appendix I limits.

In view of the results of the survey discussed above, for purposes of future reporting of off-site doses from milk ingestion we have elected to base our calculations on the assumption that a milk animal is located at 3800 meters from the plant in each land sector (not only sector F). This approach will ensure continued conservatism in our reported off-site doses.

This document has been prepared following Corporate procedures that incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Sincerely,



M. P. Alexich  
Vice President

ldp

cc: D. H. Williams, Jr.  
W. G. Smith, Jr. - Bridgman  
R. C. Callen  
G. Charnoff  
NRC Resident Inspector - Bridgman  
G. Bruchmann