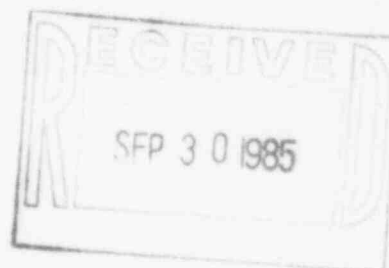


**OPPD**

Omaha Public Power District  
1623 Harney Omaha, Nebraska 68102-2247  
402/536 4000

September 19, 1985  
LIC-85-417  
FC-C-047-85

Mr. E. H. Johnson, Chief  
Reactor Project Branch  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011



Reference: Docket No. 50-285

Dear Mr. Johnson:

IE Inspection Report 84-28

The Omaha Public Power District received the subject report dated January 24, 1985, which concerned an inspection of the chemistry/radiochemistry program, radiochemistry confirmatory measurements, and whole body counting system confirmatory measurements for Fort Calhoun Station.

In order to complete the confirmatory measurements inspection, the NRC requested the Radiological and Environmental Sciences Laboratory (RESL) to send OPPD a prepared unknown sample for analysis. Results of the analysis were to be submitted to the NRC for comparison studies. Pursuant to this request, the results of the RESL test sample are given below.

An eight milliliter aliquot was used for the determination of gamma emitters, a 0.4 milliliter aliquot was used for determination of tritium and a ten milliliter aliquot was used for the strontium analysis in accordance with Fort Calhoun Station procedures. The results, decay corrected to January 11, 1985, and with the statistical error given at one (1) sigma are as follows:

Cs-137	$2.52 \text{ E-5} \pm 3.03 \text{ E-6} \text{ } \mu\text{Ci/ml}$
Co-60	$1.52 \text{ E-5} \pm 2.68 \text{ E-6} \text{ } \mu\text{Ci/ml}$
K-40	$1.10 \text{ E-4} \pm 2.47 \text{ E-5} \text{ } \mu\text{Ci/ml}$
Sr-89	$3.25 \text{ E-4} \pm 1.75 \text{ E-6} \text{ } \mu\text{Ci/ml}$
Sr-90	$2.81 \text{ E-5} \pm 4.16 \text{ E-7} \text{ } \mu\text{Ci/ml}$
H-3	LLD $\leq 1.67 \text{ E-5} \text{ } \mu\text{Ci/ml}$

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G PDR

*IC-156/85*


Mr. E. H. Johnson

September 19, 1985

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If you have further questions, please notify us.

Sincerely,



R. L. Andrews  
Division Manager  
Nuclear Production

RLA/DJM/rh

cc: LeBoeuf, Lamb, Leiby & MacRae  
1333 New Hampshire Avenue, N.W.  
Washington, DC 20036

Mr. E. G. Tourigny, NRC Project Manager  
Mr. L. A. Yandell, NRC Senior Resident Inspector

Fort Calhoun Station Files