



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005**

December 8, 2004

MEMORANDUM TO: Docket File 030-01063

THROUGH: D. Blair Spitzberg, Ph.D., Chief **/RA/**
Fuel Cycle & Decommissioning Branch
Division of Nuclear Materials Safety

FROM: Robert Evans, P.E., C.H.P., Senior Health Physicist **/RA/**
Fuel Cycle & Decommissioning Branch
Division of Nuclear Materials Safety

SUBJECT: U.S. ENVIRONMENTAL PROTECTION AGENCY CONSULTATION

The U.S. Environmental Protection Agency (EPA)-NRC Memorandum of Understanding (MOU) dated October 9, 2002, states, in part, that the NRC will consult with the EPA if either the planned level of residual radioactive soil concentrations in the proposed action or the actual residual level of radioactive soil concentrations found in the final site survey exceed the radioactive soil concentrations listed in MOU Table 1.

Augustana College has requested NRC approval to release a former burial site on campus for unrestricted use. The radioactive burial site is located in Sioux Falls, South Dakota, on the east side of the Gilbert Science Center near the corner of 33rd Street and Summit Avenue.

The radionuclide of concern is carbon-14. The licensee conservatively used a concentration of 100 pCi/g in its RESRAD calculations, although the actual concentration was estimated by both the NRC and the licensee's contractor to be about 1 pCi/g. The MOU Table 1 residential soil concentration value for carbon-14 is 46 pCi/g. The industrial/commercial soil concentration value is 123,000 pCi/g. The industrial/commercial soil concentration value may be the most appropriate value for comparison because the area is not residential property.

In summary, an EPA consultation is not required because: (1) the actual estimated concentration of 1 pCi/g is below both the residential and industrial/commercial soil concentration values, and (2) the 100 pCi/g concentration used in the RESRAD program is below the industrial/commercial soil concentration value.

Control No.: 469574
Docket No.: 030-01063
License No.: 40-06921-03

bcc (via ADAMS e-mail distribution):

MASatorius

APersinko, NMSS/DWMEP/DD (Acting Director)

DAOrlando, NMSS/DWMEP/DD

DBSpitzberg

RJEvans

FCDB

RIV Materials File Room (5th floor)

ADAMS: : Yes ☒ No Initials: RJE

: Publicly Available ☒ Non-Publicly Available ☒ Sensitive : Non-Sensitive

DOCUMENT NAME: s:\DNMS\Fcdb\RJE\Augustana - EPA Memo to File.wpd final r:_dnms

RIV:DNMS/FCDB	C:FCDB
RJEvans	DBSpitzberg
/RA/	/RA/
12/06/04	12/08/04

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax