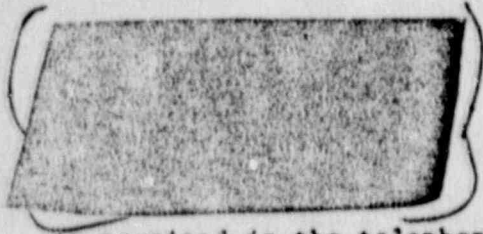




UNITED STATES
NUCLEAR REGULATORY COMMISSION
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

*West Chicago
Walter Clegg*

June 9, 1981



As promised in the telephone conversation between you and Mr. Schumacher on May 22, 1981, we are sending you a copy of the results of the measurements made at Argonne National Laboratory on May 28, 1981. As indicated by the memo from Dr. Toohey, the results were negative, meaning that they were not perceptibly different from those from typical Illinois residents who have never been exposed.

Thank you for your cooperation in having these measurements done. If you have any questions regarding them please call.

Sincerely,

J. A. Hind

J. A. Hind, Acting Director
Division of Emergency Preparedness
and Operational Support

Enclosure:
As stated

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 89-376

June 4, 1981

TO: CHR Records Room

FROM: R. E. Toohy *RET*

SUBJECT: Results of measurements of radioactivity in vivo requested by U.S. Nuclear Regulatory Commission - Case No. LX-0017 *(scribble)* measured 28 May 1981.

1. ^{226}Ra series

Apparent emanating ^{226}Ra content, (a) nCi	^{214}Bi content, (b) nCi	Apparent ^{226}Ra content, (c) nCi
-0.63 ± 0.47	0.29 ± 0.50	-0.34 ± 0.68

- Notes: (a) Determined from exhalation rate of ^{222}Rn , with correction for assumed prior exposure to an average concentration of environmental ^{222}Rn
- (b) Determined by whole-body gamma-ray counting
- (c) Sum of (a) and (b), obviously not significant

2. ^{232}Th series

Freely emanating ^{224}Ra at mouth, (d) pCi	^{212}Bi content of thorax, (e) pCi	Total ^{224}Ra content of thorax, (f) pCi
0.27 ± 0.24	-110 ± 160	-110 ± 160

- Notes: (d) Determined from exhalation of ^{220}Rn ; no correction applied for "subject background"
- (e) Determined by gamma-ray counting with detectors above and below chest of supine subject
- (f) Sum of (d) and (e), obviously not significant

RET/md

cc: E. E. Adams, M.D.
A. F. Stehney
J. Rundo
✓ N.R.D., Glen Ellyn

JUN 8 1981