

FEB 10 1986

MEMORANDUM FOR: Richard E. Cunningham, Director
Division of Fuel Cycle and Material Safety

FROM: Edward Y. Shum, Ph.D.
Uranium Process Licensing Section
Uranium Fuel Licensing Branch

SUBJECT: MEETING OF AD HOC INTERAGENCY UF₆ PUBLIC
HEALTH ASSESSMENT TASK FORCE

On February 6, 1986, at 9:30 a.m., the Ad Hoc Interagency Task Force met at the Willste Building, Room 110, to discuss the scope of public health impact assessment associated with the Sequoyah Fuels Corporation's (SFC) accidental release of UF₆ which occurred on January 4, 1986. Enclosed is a list of attendees.

During the morning session, the NRC staff presented and reviewed with the Task Force the package of information sent to them on February 1, 1986. This package included draft Chapters 1-5 of the Technical Report. Chapters 4 and 5, which consist of the basic information of the accident and data collected at the site, were reviewed and discussed with members of the Task Force.

During the afternoon, the Task Force was grouped into the following subgroups:

- A. Uranium bioassay - chemical effect
- B. Dose calculation and health effects
- C. Impact from fluoride

Members of each subgroup discussed the scope of the impact assessment based on the available data and information. After the discussion, the following consensus was made for each subgroup:

- A. Uranium bioassay - chemical effect

The subgroup will assess the health impacts of employees, contractor personnel, and members of the public based upon the available data. Information regarding chemical bioassay measurements, body weights, locations of individuals, hospital records, the employee's actions during the time immediately following the incident, were supplied to supplement the information transmitted on February 1, 1986.

Dr. Paul Morrow was not able to attend the meeting but will submit a preliminary evaluation of the bioassay data.

The subgroup indicated that the information presented was sufficient to perform a preliminary assessment and indicated that draft assessments would be provided to the NRC staff by Wednesday, February 12, 1986.

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B. Dose calculation and health effects

The ORNL team (Dr. J. Witherspoon) will take the lead in the dose calculation which includes the maximum individual dose and the population dose downwind up to 50 miles in the affected sectors. Whenever possible, site-specific data will be used for the calculations. Similar calculations will also be made for the residual effects after the plume had passed the area; this includes calculations of all pathways. The organ dose will include effective whole-body equivalent, kidney, bone, and lung doses. These calculations should be completed by February 11, 1986. This information will be transmitted to EPA (Mr. C. Nelson and Mr. A. J. Simmons) for health effects estimation. This information will also be transmitted immediately to members of USDA (Mr. G. Bickerton), CDC (Drs. J. Liddle, R. Ehrenberg), and FDA (Mr. D. Thompson) for their evaluation. Dr. Edward Shum, NRC, is the coordinator of this subgroup. All input should be provided to Dr. Shum by February 13, 1986 via telefax (301-427-4298, verification no. 301-427-4287).

C. Impact of Fluoride

This Subgroup which is addressing the impact of the released fluoride is composed of William Leese, USDA/FSIS, William Wood, EPA/OTS, Sam Zakhari, EPA/OTS, Lee Sanderson, CDC/CEH, Petro Shandruk, FDA, Bob Craig, Oklahoma State Health Department, Fred Walker, Oklahoma State Health Department, Richard McLean, ORNL, and Jerry Swift, NRC. The Subgroup agreed to address both the acute and chronic effects of the fluoride on people, pets, crops, and farm animals; the impacts on vegetation in general (e.g., grazing vegetation and trees) and on fish and game; and the potential damage to property. It was understood that input to the report will be submitted to Dr. J. Swift, NRC, no later than February 13, 1986.

Original Signed by

Edward Y. Shum, Ph.D.
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: As stated

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BZalcman, IE	FCUF R/F	PDR	Region IV
DCool	VLTharpe	BDalrymple	
JSwift, NRR	Docket No. 40-8027	LPDR	

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Attendees

Center for Disease Control

K. Gray
J. Liddle
L. Sanderson
C. Ehemmen
R. Ehrenberg

Food and Drug Administration

P. Shandruk
D. Thompson

U. S. Department of Agriculture

W. Leese
G. Bickerton
A. Brown

Environmental Protection Agency

W. Wood
J. Makris
R. Garrett
J. Simmons
S. Zakhari
W. Farland
C. Nelson

Oklahoma State Department of Health

R. Craig
F. Walker

Oak Ridge National Laboratory

J. Witherspoon
R. McLean

Kerr-McGee

J. Stauter
W. Utnage

U.S. Nuclear Regulatory Commission

E. Shum
D. Cool
J. Swift
B. Zalzman
J. Fairbent
F. Sturz

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