

AUG 09 1985

Dr. Dale Klein
Nuclear Engineering Program
College of Engineering
University of Texas
Austin, Texas 78712

Dear Dr. Klein:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON THE
UNIVERSITY OF TEXAS (UT) DECOMMISSIONING PLAN

The staff has initiated the review of the UT Decommissioning Plan submitted by letter dated May 3, 1985. In order to proceed with the review, we require the additional information indicated in the enclosed set of questions. Please submit your response by September 9, 1985.

If you wish to discuss the questions, please contact our Project Manager for your facility, Hal Bernard, at (301) 492-9799.

Sincerely,

"The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511."

Cecil O. Thomas, Chief
Standardization and Special
Projects Branch
Division of Licensing

Enclosure:
As stated

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

AUG 09 1985

Docket No. 50-192

Dr. Dale Klein
Nuclear Engineering Program
College of Engineering
University of Texas
Austin, Texas 78712

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Cecil O. Thomas

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Standardization and Special
Projects Branch
Division of Licensing

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As stated

cc: See next page

cc: Director, Governor's Budget
and Planning Office
Executive Office Building
411 West 13th Street
Austin, Texas 78701

Mr. Thomas Bauer
Nuclear Reactor Laboratory
University of Texas
Austin, Texas 78712

Bureau of Radiation Control
State of Texas
1100 West 49th Street
Austin, Texas 78756

Office of the Governor
Office of Intergovernmental Relations
P. O. Box 13561
Austin, Texas 78711

Mr. P. Jacobi
7300 Grass Cove
Austin, Texas 78759

Office of the Attorney General
P. O. Box 12548
Capitol Station
Austin, Texas 78711

REQUEST FOR ADDITIONAL INFORMATION
DECOMMISSIONING PLAN OF THE UNIVERSITY OF TEXAS

General

- (1) During demolition boring and other operations that could be cause for dispersion of radioactive dust, dust levels could be significant in occupied areas. Although ventilation and confinement barriers will be provided, please discuss your plans for monitoring for airborne radioactivity on a grab sampling and continuous basis. Additionally, please address the respiratory protection program you will use if results of this monitoring warrants it, including training and fitting of personnel.
- (2) Although not addressed in the Decommissioning Plan, please discuss your plans for bioassay of workers to assure the adequacy of your airborne radioactivity and respiratory protection programs.
- (3) TLD devices are normally used in parallel with pocket chambers to monitor personnel exposures. Please describe how personnel exposure will be tracked by the health physics group to ensure that daily exposure summaries are reviewed so that permissible limits are not exceeded.

- (4) In the 1984 Annual Report of the University of Texas, it is noted, on page 20 Table 8, that film badges are used to measure doses. Please clarify whether these personnel monitoring devices will also be used in the decommissioning operation. If so, were they inadvertently omitted in Table 2.2 of the Decommissioning Plan.

Specific Questions

- (1) page 1-11 The 2nd paragraph alludes to pool coolant radioactivity indicative of ^{24}Na activity. Please cite the radionuclides in the coolant and explain the origin of the ^{24}Na activity. Additionally, discuss the localized points within the facility where "significant concentrations may be present", and their order of magnitude.
- (2) Pg 1-24 Although the responsibilities of the health physicist are defined, his qualifications are not given in this report. Please describe the experience of all health physics personnel who will implement the radiation protection program during the decommissioning. Please include contractor health physicists, as required.
- (3) Pg 3-9
Section 4 Does the specification "Gamma measurements will be made along a single straight line" imply that only one sector of 4π around the facility will be monitored

to determine outdoor radiation levels from effluent release pathways? Please describe your plans for monitoring other sectors where airborne radioactivity or liquids may have been cause for surface or underground contamination. If these pathways have never been cause for need to monitor, please so specify with relevant justification.

(4) Pg 3-9
Section 4

Please describe the pathways that could be cause for concern for contamination in the soil from the decommissioning operation to warrent need for making background contamination level measurements.

(5) Table 2.2

The table of Radiation Survey Instruments lists "TLD reactor exposure bulbs and mini-rods" as instruments to be used during the decommissioning. Please explain what these devices are, their range and sensitivity, and how they are calibrated and read out.

(6) Pg 7.1

The proposed radiation survey plan states that a termination radiation survey will be conducted that will satisfy the NRC acceptance criteria of 5 μ R/hr above background at 1 meter. Please address the instrument

that is planned to be used for this measurement and its characteristics (if it is not a pressurized ionization chamber) that would ensure its reliability to measure the dose rate independent of gamma-ray energy.