

SEP 23 1988

MEMORANDUM FOR: Alexander Adams, Project Manager
Standardization and Non-Power Reactor Project Directorate
Division of Reactor Projects III/IV/V
and Special Projects
Office of Nuclear Reactor Regulation

FROM: LeMoine J. Cunningham, Chief
Radiation Protection Branch
Division of Radiation Protection
and Emergency Preparedness
Office of Nuclear Reactor Regulation

SUBJECT: UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA)
TRAINING REACTOR DECOMMISSIONING PLAN (50-142) -
REQUEST FOR ADDITIONAL INFORMATION

Per your memorandum of September 16, 1988, we are reviewing the Phase II decommissioning plan for UCLA. In order for us to complete our review, we need additional information as indicated in the enclosures. If you have any questions, please contact John Minns on x23151.

Original signed by James E. Wigginton

for
LeMoine J. Cunningham, Chief
Radiation Protection Branch
Division of Radiation Protection
and Emergency Preparedness
Office of Nuclear Reactor Regulation

Enclosure:

1. Request for Additional Information
2. Radiation Levels

CONTACT:
John L. Minns, NRR
492-3151

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RPB:DREP
JLMinns:bt
09/14/88

SC:RPB:DREP
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09/17/88

C:RPB:DREP
LJCunningham
09/17/88

REQUEST FOR ADDITIONAL INFORMATION
UCLA DECOMMISSIONING PHASE II
RADIATION PROTECTION BRANCH

- 470.16 Unless this information has been provided for Phase I, provide resumes showing the education, training and experience for all positions that are important to safety during Phase II decommissioning (i.e., Director of Research and Occupational Safety, Radiation Safety Officer, NEL support staff, Contractor and staff, etc.)
- 470.17
1.3 Please provide the information indicated in Enclosure 2, "Radiation Levels for Release of UCLA Reactor Facility to Unrestricted Access."
- 470.18
(1.3.1) Describe how you plan to survey for contamination on the pipes, drainlines, and ductwork to assure conformance with Regulatory Guide 1.86 limits.
- 570.19
1.4 Please revise this Phase II plan to address the decommissioning alternative "DECON", since "SAFSTOR" is no longer under consideration.
- 470.20 If, upon termination radiation surveys, "hot spots" are found that may require chipping of concrete for removal, what additional radiation protection precautions would be used to preclude spread of contamination and assurance of ALARA radiation exposures (airborne radioactivity pathway) to workers?

RADIATION LEVELS FOR RELEASE OF UCLF REACTOR
FACILITY TO UNRESTRICTED
ACCESS

• Surface Contamination

Surfaces must be decontaminated to levels consistent with Table 1 of Reg. Guide 1.86.

Radioactive Material Other Than Surface Contamination (Co 60, Eu 152, Cs 137, Sr 90)

Co 60, Eu 152 and Cs 137 that may exist in concrete, components, structures, and soil must be removed such that the radiation level from these isotopes is less than $5\mu\text{R/hr}$ above natural background¹⁾ as measured at one meter from surface.

General

A statistically sound sampling and monitoring methodology acceptable to the NRC must be used. A site survey plan must be submitted to the NRC prior to conducting final sampling and monitoring.

¹⁾ Radiation from naturally occurring radioisotopes as measured at a comparable uncontaminated structure or exterior soil surface.