

APPENDIX A
PROPOSED AMENDMENT 14
of the
TECHNICAL SPECIFICATIONS
for
License R-71
Docket 50-142

Decommissioning the Argonaut Reactor at
the University of California, Los Angeles

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APPENDIX A

PROPOSED AMENDMENT OF TECHNICAL SPECIFICATIONS

BACKGROUND:

UCLA has put before the Nuclear Regulatory Commission a request to amend License R-71. The amendment would eliminate all authorization to possess Special Nuclear Material and would further eliminate the need for a Physical Security Plan attendant to such possession.

The Technical Specifications, Appendix A to License R-71 as expressed in Amendment 13, include references to fuel handling, storage, inventories, and transfers that are inconsistent with the requested License amendment. They also contain specifications based upon operating reactor considerations. This request proposes to eliminate specifications that are inappropriate to a non-operating reactor that is to be decommissioned.

EFFECT OF PROPOSED CHANGES

1. Operating reactor experiments continue to be prohibited. The definition of such experiments is added to the Technical Specifications at I.E.
2. The facility description is altered to delete support areas that have been restricted areas as physical security buffer zones or potential radiation areas when the reactor was operable.
3. References to ventilation rates and diluent air which were based upon argon-41 release considerations are deleted.
4. The requirement for calibration of the area radiation monitors and the gas flow ionization chamber are removed.
5. The "reactor supervisor" position is eliminated, and operator training requirements are removed. Supervisory duties such as the keeping of logs and records, are transferred to the "facility manager."
6. The concept of "the health physicist assigned to the Nuclear Energy Laboratory" is replaced with the more general idea of surveillance by the campus Radiation Safety Office. This change provides an essential flexibility that our past Technical Specifications have not properly reflected.

7. The Radiation Use Committee (RUC) is disbanded. The RUC was formed to review operations, operating procedures, and proposed experiments. The decommissioning work will more logically fall under the surveillance of the Radiation Safety Office.
8. The number of written procedures is reduced to "Emergency Procedures" and "Radiological Control Procedures for All Facility Personnel." Insofar as possible, the "Emergency Procedures" shall follow the campus plan, and the "Radiological Control Procedures -- etc" shall follow the campus Radiation Protection Manual.

THE SPECIFIC CHANGES

1. Add definition I.E:

Experiment - Any operation, hardware, or target (excluding devices such as detectors, foils, etc.), which is designed to investigate non-routine [operating] reactor characteristics or which is intended for irradiation within the pool, on or in a beamport or irradiation facility and which is not rigidly secured to a core or shield structure so as to be a part of their design. (ANS 15.1 with [operating] added.)

2. Replace II.A.2 with:

The reactor building is comprised of the two-story reactor room, the second floor control room immediately west of the reactor room, and the laboratory area directly beneath the control room. All interior areas of the reactor building are restricted areas.

3. Replace II.B.3 with:

Air withdrawn from the reactor room shall be monitored for particulate radioactivity and exhausted to the atmosphere through a stack which rises approximately 107 feet above the reactor grade level.

4. Delete III.A:

(Licensee will rely upon hand-held portable survey instruments to measure the radiation fields in the core area prior to entry and while work is in progress.)

5. Delete III.B:

(There are no gaseous radio-nuclides present other than the naturally occurring radon-222.)

6. Delete III.C:

7. Replace III.D with:

The release of radioactivity from the reactor facility to the environment shall be kept to as low a level as reasonably achievable.

8. Delete IV:

(Fuel storage specifications are inapplicable.)

9. Modify V.A:

Replace "reactor supervisor" with "facility manager".

10. Replace V.B. with:

The facility manager shall be responsible for the keeping of logs and records.

11. Modify V.C.:

Replace "the health physicist assigned to the Nuclear Energy Laboratory." with "the campus Radiation Safety Office."

12. Replace V.D. with:

The campus Radiation Safety Office shall be responsible for implementing and enforcing the radiological safety program.

13. Delete V.E. and V.F.:

(The charter and purpose of the Radiation Use Committee are no longer appropriate to the on-going activities.)

14. Replace V.G. with:

The facility shall be operated in accordance with current campus procedures. The following types of written procedures shall be maintained.

1. Emergency procedures.
2. Radiological control procedures for all facility personnel.

15. Modify V.H.3. to read:

Releases of solid, liquid, and particulate radioactive wastes to the environment.

16. Replace the first sentence of V.I.1. with:

1. Any abnormal occurrence shall be promptly reported to the campus Radiation Safety Office.

17. Replace V.J.3 with:

The completion of dismantlement with the attendant characterization of the radiological status of the facility, will be reported to the Nuclear Regulatory Commission in the form of an Appendix to a plan for the ultimate decommissioning.