

ENVIRONMENTAL REPORT  
IN SUPPORT OF THE  
DECOMMISSIONING PLAN  
FOR THE  
L-77 RESEARCH REACTOR

UNIVERSITY OF CALIFORNIA  
SANTA BARBARA

Prepared for UCSB

by

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## 1.0 INTRODUCTION

It is planned to decommission the L-77 research reactor facility at the University of California, Santa Barbara, by dismantlement and disposal of the reactor and release the facility for unrestricted use. Estimates of radiation exposure and releases of radioactive material during and after completion of the decommissioning project show the environmental impact to be insignificant.

## 2.0 COLLECTIVE DOSE EQUIVALENT TO WORKERS

The collective dose equivalent to workers who are occupationally exposed to radiation during the dismantling operations is expected to be less than 0.045 person-rem above background.

## 3.0 PUBLIC EXPOSURE TO RADIOACTIVE EFFLUENTS

No radioactive effluents are released to the public during the dismantling operations.

## 4.0 PUBLIC EXPOSURE FOLLOWING LICENSE TERMINATION

The facility will be decontaminated to residual radioactivity levels below those presented in U.S. NRC Regulatory Guide 1.86. The ambient radiation exposure rate will be less than 5  $\mu$ R/h above background. Exposure of the public will be insignificant.

## 5.0 CONCLUSION

Exposures anticipated due to the planned action are small fractions of regulatory guidelines. The environmental impact of this action is insignificant.

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