



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

April 4, 1985

Docket Nos: 50-275  
and 50-323

MEMORANDUM FOR: George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

FROM: Donald P. Cleary, Acting Chief  
Site Analysis Branch  
Division of Engineering

SUBJECT: DIABLO CANYON ALLEGATIONS 1505 and 1506

Attached, as requested by your memorandum of March 5, 1985, is the completed form (Enclosure 3.) For Allegations 1505 and 1506, we have assigned applicability Code "E" to both of these allegations.

Donald P. Cleary, Acting Chief  
Site Analysis Branch  
Division of Engineering

Enclosures:  
As stated

cc: WVJohnston

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## DIABLO CANYON ALLEGATIONS

Task: 1505 + 1506 CODE "E"

ATS No: RV 84A114

BN No: NONE

### Characterization

Allegations 1505 and 1506 are concerned with the safety of 8 one ton cylinders of chlorine stored on-site. The safety concerns are with respect to sabotage and storm driven wave damage. The allegations are stated to be threats to Reactor Safety as well as to residents living downwind of the Diablo Canyon facility.

### Implied Significance to Plant Design, Construction, or Operation

The Diablo Canyon Reactor Control Room Habitability System is designed to detect chlorine gas and isolate the ventilation system. Detection and isolation provides interim protection so that the control room operators can don emergency breathing apparatus. Hence, the control room operators are sufficiently protected for conducting a safe shutdown of the facility. Other employees on-site would need to evacuate, as has been done at other reactor facilities as well as chemical plants when chlorine is accidentally released.

### Assessment of Safety Significance

The Diablo Canyon control room is designed to protect the operators in event of chlorine leakage. Hence, the presence and potential release of the on-site chlorine is not a significant hazard with respect to the safety of the plant. SAB, will, however need to evaluate the consequences of the postulated chlorine spill on residents who live downwind of the site.

### Staff Position

The Staff considers that the Diablo Canyon Control Room Operators are protected adequately against the effects of a release of the on-site chlorine. With respect to off-site residents, the staff believes that the chlorine hazard is not significant. However, the basis for this assessment has not been formally documented. The Staff intends to evaluate the off-site concentrations of a chlorine spill at resident locations downwind.

### Action Required

SAB will estimate the extent of a chlorine release with respect to the off-site residents. Another division will need to address the question of sabotage. EHEB will provide an assessment of the consequences of a potential chlorine release on the off-site residents.