

Project Title: Environmental Statements Project

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Responsible NRC Individual and NRC Office or Division: Wm. H. Regan,
Assistant Director (acting), Division of Site Safety and Environmental
Analysis

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NRC Research and Technical
Assistance Report

OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37830
operated by
UNION CARBIDE CORPORATION
for the
DEPARTMENT OF ENERGY

OAK RIDGE NATIONAL LABORATORY MONTHLY REPORT TO
THE DIVISION OF SITE SAFETY AND ENVIRONMENTAL ANALYSIS

February 1980

A. Status of Environmental Reviews

Allens Creek - J. B. Cannon, Project Manager

The staff has been engaged in working on the alternative site analysis for publication as a supplement.

San Onofre Units 2 and 3 - R. M. Rush, Project Manager

No significant activity in January.

Virgil C. Summer Nuclear Station - N. E. Hinkle, Project Manager

No activity in February.

Douglas Point Nuclear Generating Station Units 1 and 2 - N. E. Hinkle

Additional minor comments for the alternate site testimony were received from the EPM and the final draft was expected to be delivered to NRC in early March.

B. Support Group Activities
Environmental Fluid Dynamics Group

PLUME Model User's Manual - J. B. Cannon

No activity this month.

NEP Groundwater Flow - D. W. Lee

No activity this month.

1.2 Analytical Support Work

ORFAD - Cooling Tower Fog and Drift Program - M. E. LaVerne, H. A. McLain, and E. C. Long

Typing of revised draft of the ORNL/TM memo describing the present ORFAD program is continuing. Work also is continuing on evaluating the sensitivity of the droplet evaporation height upon the drift deposition rates.

ORFAD - Review of the Plume Behavior Models - J. E. Molyneux

A turbulence closure scheme for the basic moist plume equations has been developed at the University of Rochester. A critical review of this scheme

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was made, and a visit to the university has been arranged to discuss this analysis further.

Statistical Continuum Model of Thermal Discharge - J. E. Molyneux,
A. J. Witten and E. C. Long

No activity this month.

Computer Program Cataloging - E. C. Long

The draft of the CF memo describing LIST, a computer program for listing program outputs on CRT terminals and producing copies on hard copy units is now undergoing its final review.

1.4 Intake Structures Evaluation Study

D. W. Lee

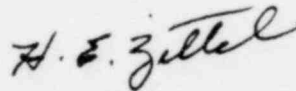
Testified again at the EPA Hudson River hearings.

D. Budget

Project costs are reported in the attached tables.

F. Remarks

None.



H. E. Zittel, Manager
Environmental Statements Project

ENVIRONMENTAL STATEMENTS PROJECT

COST AND MANPOWER DEVOTED TO ORNL
 WORK FOR THE DIVISION OF SITE SAFETY AND ENVIRONMENTAL ANALYSIS

	February 1980		FY-1980		Prior Years	
	MMs	Project	MYs	Project	Cost	MYs
Erie	0.09	1,457	0.03	827	459,578	4.88
San Onofre 2,3	--	277	--	1,979	259,701	2.69
Virgil C. Summer	--	--	0.10	9,667	204,017	1.87
Allens Creek	0.48	8,410	0.20	27,645	227,186	2.23
Douglas Point 1, 2	0.25	1,892	0.40	29,290	256,963	3.76
South Texas	--	--	--	13		
Others	--	12,409*	--	12,436		
Total	0.82	24,445	0.73	89,302		

*Bad charges will be corrected in following months.

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