

INTERIM REPORT

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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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Washington, D. C. 20555  
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OAK RIDGE NATIONAL LABORATORY  
Oak Ridge, Tennessee 37830  
operated by  
UNION CARBIDE CORPORATION  
for the  
DEPARTMENT OF ENERGY

921309

NRC Research and Technical  
Assistance Report

INTERIM REPORT

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

July 1979

A. Status of Environmental Reviews

Allens Creek - J. B. Cannon, Project Manager

No activity.

Douglas Point - H. E. Zittel, Project Manager

The staff has reviewed the Applicant's Site Selection Study and has submitted additional questions to the EPM.

Greene County - R. M. Rush, Project Manager

No activity.

Indian Point - R. M. Rush, Project Manager

The staff is preparing for the resumption of hearings in September.

New England Power Units 1 and 2 - R. M. Rush, Project Manager

As per instructions from the NRC this project has been closed.

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

The staff has been involved in the analysis of the effect of flow reversal on the thermal impact.

South Texas - J. B. Cannon, Project Manager

No activity.

Sterling - J. B. Cannon, Project Manager

No activity.

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

No activity in July.

Erie - N. E. Hinkle, Project Manager

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Final portion of draft of revised alternative site assessment was completed. No comments have been received yet from NRC reviewers, although most of material was forwarded in June.

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

The ORNL team for the alternative site environmental assessment consists of N. E. Hinkle and H. E. Zittel for assessments related to engineering and social categories, D. Vaughn for aquatic ecology evaluations and F. Sharples for terrestrial ecology evaluation.

Questions were submitted to the Applicant and documentary material was requested from the Applicant, the State agencies of Maryland and Virginia, and the counties of interest in both states. Topographic maps were ordered from U.S.G.S.

A site visit to the region of interest in southern Maryland and northern Virginia has been scheduled for August 14-17. The EPM, S. Keblusik, and Applicant's representative will participate in the site visit.

B. Technical Projects

Alternative Screening Devices for Reducing Entrainment/Impingement -  
J. B. Cannon, Principal Investigator

No activity. ORNL/TM-6472 was disseminated.

Timing for Additions to Generating Capacity - R. L. Spore

No activity.

Socioeconomic Impact of Coal Fuel Cycles - B. H. Bronfman

No activity.

C. Support Group Activities  
Environmental Fluid Dynamics Group

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

No activity this month.

ORFAD - Cooling Tower Fog and Drift Program - M. E. LaVerne and E. C. Long

The work on revising the ORFAD program to make its operation more efficient has been completed.

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

Final typing of the paper describing the instantaneous release of a pollutant into a stream has been completed, and the paper is ready to be submitted for publication.

Simplified 2-D Tidal Model - A. J. Witten and E. C. Long

No activity this month.

D. Budget

Project costs are reported in the attached tables.

E. Overdue Action of SSEA Regarding Laboratory Requests

None.

F. Remarks

None.

*H. E. Zittel*

H. E. Zittel, Manager  
Environmental Statements Project

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

	July 1979			FY 1979			Prior Years	
	MMs	Administrative MMs	Project Cost	MYs	Administrative MYs	Project Cost	Cost	MYs
Indian Point				.40	0.02	37,947	414,119	7.43
PMNP-Generic				.01		1,920	647,452	9.39
Seabrook				.08		12,195	294,495	4.7
Atlantic						249	416,223	6.39
Montague				.04		2,895	336,355	5.31
Greene Co.			932	2.66	0.20	375,377	686,806	8.1
Technical Projects								
Power Plant Intake Design						105	67,629	.85
Multiple Use Cooling Reservoir							36,874	
Standard Review Plan				.01		1,984	159,216	1.71
Cooling Water Consumption							1,029	
Economic Research Time							849	
Socioeconomic Impacts							28	
Fort Calhoun						20	364,719	3.61
Sundesert					0.02	25,551	401,129	4.33
Erie	1.69	0.7	17,023	0.59	0.04	75,283	372,439	4.26
San Onofre 2, 3	0.82	0.4	8,386	0.27	0.02	40,605	214,306	2.41
Virgil C. Summer	0.31	0.1	3,133	0.72	0.07	102,765	83,137	1.08
Shearon Harris						66	1,989	.011
Allens Creek			(257)	0.57	0.06	61,278	164,604	1.67
Comanche Peak				.01		1,854	24,680	.32
Grand Gulf							5,699	.07
South Texas				0.60	0.06	66,798	17,645	.20
Surry 3, 4							133,907	2.44
Douglas Point 1, 2							174,172	3.33
Cherokee							142,617	2.58
Perkins				0.10	0.01	16,570	137,454	2.48
New England	0.10	0.1	2,576	1.66	0.16	204,963		

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Tyrone Energy Park 1, 2	---	---	----	---	---	----	329,629	4.01
Jamesport	---	---	----	---	---	----	345,326	5.57
North Coast	---	---	----	---	---	----	107,819	1.92
Sterling	---	---	----	---	---	----	222,505	4.40
Construction Cost Nomograms	---	---	----	---	---	----	30,193	.37
North Anna	---	---	----	---	---	----	56,401	1.29
Surry 1, 2	---	---	----	---	---	----	20,434	.18
Diablo Canyon	---	---	----	---	---	----	7,886	.06
Black Fox	---	---	----	---	---	----	9,376	.08
Cost/Benefit Section	---	---	----	---	---	----	3,553	.03
PMNP-Manufacturing	---	---	----	---	---	----	1,213	.02
Perry 1, 2	---	---	----	---	---	----	141,440	3.04
Indian Point 1	---	---	----	---	---	----	38,596	.87
Summit 2, 3	---	---	----	---	---	----	160,380	3.58
Comanche 1, 2	---	---	----	---	---	----	96,831	2.27
River Bend	---	---	----	---	---	----	111,330	2.36
Fulton 1, 2	---	---	----	---	---	----	72,895	1.54
Offshore Survey Report	---	---	----	---	---	----	6,053	.40
Allens Creek 1, 2	---	---	----	---	---	----	89,907	1.59
Quanticassee 1, 2	---	---	----	---	---	----	31,988	.62
Sequoyah Nuclear Plant	---	---	----	---	---	----	3,795	.06
Clinch River (LMFBR)	---	---	----	---	---	----	4,835	.11
Perkins Nuclear Station	---	---	----	---	---	----	131,330	2.40
Wolf Creek Project	---	---	----	---	---	----	263,680	3.90
South Texas Project	---	---	----	---	---	----	110,350	2.30
Palisades	---	---	----	---	---	----	2,996	.07
Mendocino	---	---	----	---	---	----	138,546	3.73
McGuire	---	---	----	---	---	----	35,996	.87
Hatch 1, 2	---	---	----	---	---	----	2,815	.07
Arkansas	---	---	----	---	---	----	62,899	1.78
Farley	---	---	----	---	---	----	5,209	.12
Peach Bottom	---	---	----	---	---	----	47,135	1.20
Limerick 1, 2	---	---	----	---	---	----	100,222	2.48
Newbold Island	---	---	----	---	---	----	110,673	3.12
Vermont Yankee	---	---	----	---	---	----	15,002	.38
St. Rosalie	---	---	----	---	---	----	1,256	.03
Ginna	---	---	----	---	---	----	155,575	3.84

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Vogtle							116,550	2.98
San Onofre 1							158,920	3.79
Catawaba							111,355	3.18
Offshore-Manufacturing							270,027	6.53
Shoreham							203,369	3.03
Blue Hills							25,751	2.65
Offshore-Generic							62,306	1.29
Interagency Study							67,946	1.57
Hope Creek 1, 2							44,417	1.10
Alternate Site Evaluations							15,559	.22
Striped Bass							7,931	
Hartsville							1,414	.01
User's Manual Tidal Transient							139	
2-D Far-Field								
User's Manual Tidal Transient							6	
1-D Estuaries & Rivers								
Barnwell								
Marble Hill - Assistance							1,336	
General Support							41,951	
Contract Costs							67,846	
Administration							(1,067,794)	(14.70)
Problem Groups							(702,338)	(13.70)
Allocated Miscellaneous							293,796	4.25
Total	2.92	1.3	31,775	7.72	0.9	988,246	11,196,883	168.36

1.7

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