

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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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
Under Interagency Agreement 40-544-75
NRC FIN No. B001

NRC Research and Technical
Assistance Report

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

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INTERIM REPORT

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

June 1979

A. Status of Environmental Reviews

Allens Creek - J. B. Cannon, Project Manager

No significant activity.

Douglas Point - H. E. Zittel, Project Manager

The staff has been reviewing the Applicant's Site Selection Study. A site visit is anticipated for August.

Greene County - R. M. Rush, Project Manager

No activity.

Indian Point - R. M. Rush, Project Manager

Preparation of the staff's direct testimony has been completed and submitted to the Board. The hearings will resume in September with cross examination of the staff's hearing.

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

On June 12 the Applicant announced that it was curtailing its licensing effort until the disposition of the proposed site is resolved by GSA. On June 20 GSA announced that the proposed site will be conveyed to the DOI Fish and Wildlife Service, the EPA, and the town of Charlestown. The environmental review of this application has been placed on indefinite hold.

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

No significant activity.

South Texas - J. B. Cannon, Project Manager

The PDES was transmitted to the Commission. No further work is anticipated for the remainder of this calendar year.

Sterling - J. B. Cannon, Project Manager

No activity.

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

The DES was issued in late June with minor changes made by NRC on the mats prepared at ORNL. Work on this project will be virtually nonexistent until the end of the public comment period.

Erie - N. E. Hinkle, Project Manager

The majority of the draft to the revised alternative sites assessment has been delivered to NRC for review. Review by ORNL team members has been underway. Further major activity on this project awaits responses from the NRC reviewers.

Blue Hills - J. M. Loar, Project Manager

The staff has participated in the ASLB hearing. No further action is contemplated.

B. Technical Projects

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

The final draft of ORNL/TM-6472 has cleared Laboratory Records and is now in Reproduction.

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 GroupPLUME 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

Work has continued on revising the ORFAD program to make its operation more efficient. The formulation of the droplet impact velocity when the fall distance is less than the evaporation height (used in the Hosler approximation) has been revised to be more consistent with physical reality. The effect of this will be a slight reduction in the predicted salt concentration.

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

The paper describing the instantaneous release of a pollutant into a stream is in its final typing stage. The work on inverting the Mellon transform used in the stochastic theory for predicting the impacts of a pollutant being released continuously into a stream is complete. Writing of the paper describing this has been started.

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

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

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	June 1979*		FY 1979			Prior Years		
	MMs	Administrative MMs	Project Cost	MVs	Administrative MVs	Project Cost	Cost	MVs
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.			78	2.66	0.20	371,556	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	1.45	0.6	23,282	0.54	0.04	58,260	372,439	4.26
San Onofre 2, 3	0.20	0.1	3,208	0.24	0.02	32,219	214,306	2.41
Virgil C. Summer	0.04	0.1	1,797	0.1	0.07	99,632	83,137	1.08
Shearon Harris						66	1,939	.011
Allens Creek	0.08	0.1	1,890	0.57	0.06	61,535	164,604	1.67
Comanche Peak				.01		1,854	24,680	.32
Grand Gulf							5,699	.07
South Texas	0.31	0.2	4,488	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	0.55	0.4	7,731		0.16	202,387		

*Includes combined costs for March and April plus \$38,360 cad charges from February.

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	---	---	---	---	---	---	10,673	3.12
Vermont Yankee	---	---	---	---	---	---	15,002	.38
St. Rosalie	---	---	---	---	---	---	1,256	.03
GINNA	---	---	---	---	---	---	155,575	3.84

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Vogtle								16,550	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		928				1,588		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 2-D Far-Field								139	
User's Manual Tidal Transient 1-D Estuaries & Rivers								6	
Barnwell									
Marble Hill - Assistance								1,336	
General Support								41,951	
Contract Costs	1.7							67,846	
Administration								(1,067,794)	(14.70)
Problem Groups								(702,338)	(13.70)
Allocated Miscellaneous								293,796	4.25
Total	2.63	1.7	43,402	7.64	0.8	956,471	11,198,883		168.36

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