

# NRC Research and/or Technical Assistance Report

INTERIM REPORT

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Project Title: Environmental Assessments of Fuel Cycle Facilities

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

INTERIM REPORT

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OAK RIDGE NATIONAL LABORATORY MONTHLY REPORT TO  
URANIUM RECOVERY AND LICENSING BRANCH  
DIVISION OF WASTE MANAGEMENT

October 1981

A. Environmental Assessment Activities

None Presently Active.

B. In Situ Mining

Nine Mile Lake

This project is inactive.

Teton In Situ

Draft in preparation. Answers to ORNL questions available.

C. Mines and Mills

Groundwater Mill Tailings

Overview of groundwater contamination has been completed, project on schedule.

Edgemont Decommissioning

The DES has been issued.

Fed-Am Partners

The DES has been sent to NRC.

Conoco Sand Rock

All PDES Chapters in preparation. Several completed draft sections sent to NRC. Word Processing is producing PDES.

Kerr-McGee

This project has been re-activated. Questions to the applicant and refit of old PDES in progress.

D. Budget

Costs are reported on the attached tables.

E. Overdue Action of FCMS Regarding Laboratory Requests

None.

## F. Comments

In regard to your letter of September 30, 1981 regarding detail and schedule information on topical reports the following represents work status and schedule through October.

	To Date MM	Schedule
(i) Rock Cover vs. Vegetation	8.41	Draft at NRC
(ii) Cost Benefits Aspects	5.11	No firm schedule-- depends on other reports
(iii) Upward Geochemical Migration	3.68	Draft at NRC
(iv) Radon Attenuation	5.88	Draft in December (more difficult than expected)
(v) Techniques of Groundwater Rest	6.21	Draft at NRC
(vi) Site Dewatering Techniques	4.02	No Firm Schedule (Information being collected)
(vii) Tailings Consolidating Techniques	3.60	Same as (vi)
(viii) Land Ownership	0	Not yet initiated
Total Man-Months to date	36.91	
Approximate Cost to date	250K	

## G. Remarks

None.

*H. E. Zittel*

H. E. Zittel  
Project Manager

HEZ/baw

	Prior Years		Total Project		Original Estimate
	MM	Cost	MY	Cost	
Shootering Canyon Mill	5.88	33,328	1.67	137,170	125,000 <sup>(1)</sup>
White Mesa Mill	13.20	70,323	1.74	145,301	125,000 <sup>(1)</sup>
Plateau Resources OBS	3.48	18,630	0.36	25,680	25,000 <sup>(1)</sup>
EFOBS Hanksville	1.56	8,472	0.22	23,888	25,000 <sup>(1)</sup>
EFOBS Blanding	1.56	8,742	0.18	14,460	25,000 <sup>(1)</sup>
Homestake Pitch Project	28.20	253,247	2.35	253,545	None <sup>(1)</sup>
Kerr-McGee Powder River	22.90	167,246	2.00	174,321	None <sup>(1)</sup>
Nine-Mile Lake	17.52	137,075	1.46	137,075	150,000
Groundwater Mill Tailings	2.52	105,935	0.21	112,935	NA
Colorado State	--	--	0.05	57,311	NA <sup>(3)</sup>
Edgemont Decommissioning	25.32	189,293	2.60	251,513	150,000
Gulf Minerals	6.84	47,411	0.57	47,411	150,000 <sup>(1)</sup>
Bison Basin	17.40	151,064	1.60	182,386	150,000 <sup>(1)</sup>
Hansen Project	4.08	28,569	0.34	38,854	150,000 <sup>(1)</sup>
Fed-Am Partners	17.52	127,342	1.73	164,526	150,000
Bokum Tailings	--	4,288	--	4,288	None <sup>(1)</sup>
San Miquel Tailings	0.36	18,038	0.03	21,949	None <sup>(1)</sup>
Conoco Sand Rock	18.24	99,016	1.59	105,687	150,000
Teton In-Situ	8.76	57,419	0.84	64,197	150,000
General & Special Accounts	58.80	665,321	0.77	29,357 <sup>(3)</sup>	NA <sup>(2)</sup>

Notes: (1) Accounts Closed.

(2) Consolidated account - previously General charges and Morton Ranch.

(3) Current year cost - see comments.

PROJECT COST AND MANPOWER BREAKDOWN FOR OCTOBER 1981

	MM	Cost	Impact Section Hours	Science Division Hours	Subcon- tractor Hours	Radio- logical Hours	Technical Support Services Hours	Document Prepar- ation Costs	Consult. Costs	Travel Costs
Conoco Sand Rock	0.85	6,671	84	44	--	--	20	2,086	--	--
Cumulative FY-81	0.85	6,671	84	44	--	--	20	2,086	--	--
Groundwater Mill Tailings <sup>(2)</sup>	--	7,000	--	--	--	--	--	--	--	--
Cumulative FY-81	--	7,000	--	--	--	--	--	--	--	--
Colorado State	0.51	2,824	88	--	--	--	--	--	--	--
Cumulative FY-81	0.51	2,824	88	--	--	--	--	--	--	--
Edgemont Decommissioning	--	--	--	--	--	--	--	--	--	--
Cumulative FY-81	--	--	--	--	--	--	--	--	--	--
Kerr-McGee	1.09	7,075	104	85	--	--	--	--	--	--
Cumulative FY-81	1.09	7,075	104	85	--	--	--	--	--	--
Fed-Am Partners	--	--	--	--	--	--	--	--	--	--
Cumulative FY-81	--	--	--	--	--	--	--	--	--	--
Teton In-Situ	1.28	6,778	50	141	30	--	--	--	--	--
Cumulative FY-81	1.28	6,778	50	141	30	--	--	--	--	--
General and Special Accounts	5.53	29,357	184	247	--	--	528	--	--	1,242
Cumulative FY-81	5.53	29,357	184	247	--	--	528	--	--	1,242
Current Month Totals	9.26 <sup>(1)</sup>	59,705	510	517	30	--	548	2,086	--	1,242
FY-81 TOTALS	9.26	59,705	510	517	30	--	548	2,086	--	1,242

(1) See comments for cost and status of Topical Reports.

(2) Idaho subcontract

(3) See July 79 monthly report for general information regarding costs.

Note: We owe subcontractors about 30k on Conoco and 10k on Teton.

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