

T R A N S M I T T A

8/31  
discussed  
w/Brad  
KS

To: CALTRANS

Attention: Katy Walton

Fax: \_\_\_\_\_

From: Brad Mettam

Date: 8-10-94

Pages: 16

Re: \_\_\_\_\_

2nd Draft of FY 94 &  
FY 95 work plans for  
CHEM HILL.

Any comments would be  
appreciated.

Brad

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COUNTY OF INYO

DRAFT FY1994 SOW

**EXHIBIT A****COUNTY OF INYO  
YUCCA MOUNTAIN REPOSITORY ASSESSMENT OFFICE****SCOPE OF WORK -- FISCAL 1994****INTRODUCTION AND PROJECT UNDERSTANDING**

On the basis of a June 30, 1994, correspondence from the County of Inyo (County) to CH2M HILL, it is our understanding that the County has selected CH2M HILL to provide consultant services associated with ongoing U.S. Department of Energy (DOE) efforts to characterize Yucca Mountain, Nevada, as the proposed site for a federal high-level nuclear waste repository. We also understand that these County-solicited consultant services generally encompass, but are not necessarily limited to assistance in the following areas, as specified in the County's original February 10, 1994, request for qualifications (RFQ):

- Analysis of Oversight Activities; and
- Transportation Systems Studies.

It is our further understanding that the County intends to establish an ongoing relationship between CH2M HILL and the County's Yucca Mountain Repository Assessment Office (RAO), to be defined by a series of periodic contracts, specific as to timing, duration and total dollar amount, for these services. At the County's request, CH2M HILL has prepared this Scope of Work (SOW) for initial tasks specified in the County's June 30, 1994, correspondence, both in terms of level of effort required, as well as a breakdown of the individual SOW tasks and associated costs.

**SCOPE**

Given the reactive and potentially evolving nature of the contracted services, CH2M HILL proposes to structure this SOW into the following broad work effort elements:

- Element I Activities - DOE Oversight/Analyses; and
- Element II Activities -- Transportation System/Infrastructure Studies.

Element I Activities will comprise those on-call, as-needed assignments, of to be-specified extent and duration, which pertain to review of DOE-produced technical, regulatory, and policy studies, associated with Yucca Mountain site characterization activities/analyses. Element I Activities encompass review of DOE studies related to such nuclear waste

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transportation issues as multi-purpose canister design, mode selection, and route designation.

Element II Activities pertain to impact assistance request-related services. Element II Activities encompass such services as: 1) development of transportation system baseline information/studies on existing transportation routes, including State Route 127, that may be used for shipments to Yucca Mountain; and 2) evaluations of potential impacts on County residents and services, existing and future infrastructure, the environment, and socioeconomic conditions.

**APPROACH**

During the performance of this SOW, CH2M HILL shall perform the following tasks:

**ELEMENT I ACTIVITIES**

**Task I-1 -- Multi-Purpose Canister (MPC) EIS "White Paper"**

At the present time, DOE's intent is to restrict environmental documentation efforts to a single National Environmental Policy Act (NEPA) Environmental Impact Statement (EIS) focused on MPC fabrication and deployment at reactor sites. Given the DOE's planned implementation of a series of related and/or phased projects, a Programmatic EIS under NEPA appears warranted for several major reasons: to create a technically sound analytical superstructure for more detailed project-level analyses; analysis of cumulative impacts and their significance; evaluation of reasonable alternatives; and for documentation which may be required at later phases or tiers.

Task I-1 entails formulating an appropriate County response to DOE's present NEPA documentation course. Task I-1 work efforts will include the following primary activities:

- review of DOE's intended NEPA documentation approach, including analysis of its legal sufficiency;
- detailed analysis of potential state/federal environmental statutory and regulatory implications;
- development of a plan for County participation in the DOE EIS process, to identify NEPA/CEQA requirements, including:
  - project definition
  - purpose and need
  - sequence/timeline of program development and environmental tiering
  - alternatives to proposed action

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- affected parties and public involvement needs
- roles, jurisdictions, and applicable regulations
- impacts and mitigation
- direct/indirect (cumulative) impacts
- identification of recommended environmental documentation approach, addressing:
  - need for and value of a Programmatic/Tiered EIS
  - potential need for joint EIR/EIS
  - appropriate CEQA lead agency
  - action plan for County input to process

**Meetings**

- One (1) meeting at the County's RAO

**Deliverables**

- Three (3) hard copies each, plus a single computer disc containing a Word 6.0 version of a Draft and Final MPC EIS "White Paper"
- Three (3) copies, plus a single computer disc containing a Word 6.0 version of a Draft and Final County Action/Strategy Plan

**ELEMENT II ACTIVITIES**

**Task II-1 -- Analysis of Route 127 Traffic Data and Survey**

This task will comprise review, analysis, and evaluation of the traffic survey information and data collected and the survey methodology utilized by the County and the California Department of Transportation (Caltrans) for State Route 127 during the periods of March 25-29 and May 14-17, 1994. Supplemental information from previous Caltrans or other state agency historic Route 127 traffic data will be reviewed as necessary and appropriate. Additional seasonal data collection can be performed by CH2M HILL as an extra work item.

A traffic assessment report will be prepared which will summarize the traffic study and supplemental traffic data. Items to be provided or summarized will include:

- vehicle type -- passenger car, recreational vehicle, single unit truck, tractor trailer, etc.
- origin/destination -- screen line (traffic flow) analysis

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*Review of  
All data  
in file by end  
of Oct. 1994  
Ch2M Hill  
Report on All  
Project*

- trip purpose -- work, recreational, shopping, personal, etc.
- residential status -- local, out-of-state, out-of-country
- commercial data
  - destination -- mine site, farm, retail, etc.
  - hauling contents -- hazardous material/waste, produce, manufactured goods, etc.
  - loads weight

identification of any survey or traffic data deficiencies

**Meetings/Travel**

- One (1) meeting at the County's RAO

**Deliverables**

- Three (3) hard copies, plus a single computer disc containing a Word 6.0 version of a Final Route 127 Traffic Survey Data Assessment Report *Graphics & Spreadsheets in excel*

**PROJECT COST ESTIMATE AND ASSUMPTIONS**

CH2M HILL will perform the requested services outlined above on a Time and Materials basis for an estimated not-to-exceed cost of \$50,762. CH2M HILL 1994 per diem charge rates for professional and technician categories are listed on Attachment A-1 to this SOW. As requested by the County, the task-by-task costs of these services are derived on the basis of the following:

**WORK ELEMENT BREAKDOWN**

<u>Task</u>	<u>Labor*</u>	<u>Direct Costs</u>
I-1 MPC White Paper	\$31,529	\$ 6,264
II-1 Route 127 Data Analysis	<u>11,312</u>	<u>1,657</u>
Subtotal	\$42,841	\$ 7,921
<b>Total</b>		<b>\$50,762</b>

\*Includes travel, meeting, and project management

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**PROJECT SCHEDULE**

Assuming receipt of formal authorization to proceed by September 1, 1994, we anticipate completion of Tasks I-1 and II-1 by 11/11/94 and 10/14/94, respectively. Attachment A-2 to this SOW illustrates presents a timeline of this schedule.

SWESS8,WT

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August 9, 1994

COUNTY OF INYO

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ATTACHMENT A-1

CH2M HILL  
1994 PER DIEM CHARGE RATES  
FOR PROFESSIONALS AND TECHNICIANS  
SCHEDULE NO. YW

<u>Classification</u>	<u>Hourly Rate</u>
Office	\$ 46.00
Tech Aide	41.00
Technician Grade 1	51.50
Technician Grade 2	62.25
Technician Grade 3	73.00
Technician Grade 4	84.00
Technician Grade 5	98.00
Professional Grade 0	64.75
Professional Grade 1	77.00
Professional Grade 2	83.75
Professional Grade 3	93.50
Professional Grade 4	106.50
Professional Grade 5	120.50
Professional Grade 6	134.75
Professional Grade 7	156.75
Professional Grade 8	175.75

Rates are subject to adjustments on December 25, 1994.

NIYO COUNTY YUCCA MOUNTAIN REPOSITORY ASSESSMENT OFFICE

ID	Name	September			October			November			December		
		9/28	9/29	9/30	10/1	10/2	10/3	11/1	11/2	11/3	12/1	12/2	12/3
1	PROJECT KICKOFF (Sept. 1)	◆											
2													
3	TASK 1-1 MPC IIS "WHITE PAPER"												
4	Review DCE NEPA Documentation Approach												
5	Analyze Regulatory/Regulatory Inspections												
6	Identify Recommended Documentation Approach												
7	Prepare/Submit Draft "White Paper"												
8	County Review												
9	Review/Submit Final "White Paper"												
10	Prepare/Submit Draft Action Plan												
11	County Review												
12	Review/Submit Final Action Plan												
13													
14	TASK 1-2 ANALYSIS OF ROUTE 127 DATA												
15	Review, Analyze, Evaluate Route 127 Survey Data												
16	Prepare/Submit Draft Traffic Survey Assessment Rpt.												
17	County Review												
18	Review/Submit Final Traffic Survey Assessment Rpt.												



ATTACHMENT A-2 FISCAL 1994 TASKS

COUNTY OF INYO

DRAFT FY1995 SOW

**EXHIBIT B**

**COUNTY OF INYO  
YUCCA MOUNTAIN REPOSITORY ASSESSMENT OFFICE**

**SCOPE OF WORK -- FISCAL 1995**

**INTRODUCTION AND PROJECT UNDERSTANDING**

On the basis of a June 30, 1994, correspondence from the County of Inyo (County) to CH2M HILL, it is our understanding that the County has selected CH2M HILL to provide consultant services associated with ongoing U.S. Department of Energy (DOE) efforts to characterize Yucca Mountain, Nevada, as the proposed site for a federal high-level nuclear waste repository. We also understand that these County-solicited consultant services generally encompass, but are not necessarily limited to assistance in the following areas, as specified in the County's original February 10, 1994, request for qualifications (RFQ):

- Analysis of Oversight Activities; and
- Transportation Systems Studies.

It is our further understanding that the County intends to establish an ongoing relationship between CH2M HILL and the County's Yucca Mountain Repository Assessment Office (RAO), to be defined by a series of periodic contracts, specific as to timing, duration and total dollar amount, for these services. At the County's request, CH2M HILL has prepared this preliminary Scope of Work (SOW) for the four initial tasks specified in the County's June 30, 1994, correspondence, both in terms of level of effort required, as well as a breakdown of the individual SOW tasks and associated costs.

**SCOPE**

Given the reactive and potentially evolving nature of the contracted services, CH2M HILL proposes to structure this SOW into the following broad work effort elements:

- Element I Activities -- DOE Oversight/Analyses; and
- Element II Activities -- Transportation System/Infrastructure Studies.

Element I Activities will comprise those on-call, as-needed assignments, of to-be-specified extent and duration, which pertain to review of DOE-produced technical, regulatory, and policy studies, associated with Yucca Mountain site characterization activities/analyses. Element I Activities encompass review of DOE studies related to such nuclear waste

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transportation issues as multi-purpose canister design, mode selection, and route designation.

Element II Activities pertain to impact assistance request-related services. Element II Activities encompass such services as: 1) development of transportation system baseline information/studies on existing transportation routes, including State Route 127, that may be used for shipments to Yucca Mountain; and 2) evaluations of potential impacts on County residents and services, existing/future infrastructure, the environment, and socioeconomic conditions.

**APPROACH**

During the performance of this SOW, CH2M HILL shall perform the following tasks:

**ELEMENT I ACTIVITIES**

No Element I activities are currently planned for this initial SOW.

**ELEMENT II ACTIVITIES**

**Task II-2 -- Route 127 Roadway Conditions Analysis**

As a basis for examining the potential impacts of adding high-level nuclear waste truck transport shipments to existing Route 127 traffic, this task, in conjunction with Task II-1, will comprise study and analysis of current Route 127 physical and operational characteristics. Primary Task II-2 work efforts will include:

- review of existing plans, strip maps (Caltrans), and aerial mosaics to identify potential design deficiencies (lane and shoulder widths, curvature, stopping sight distance, etc.);
- review of recent historical accident data, using the Caltrans/CHP database (TASAS), to identify locations of high accident potential;
- conduct of a highway reconnaissance for the Route 127 segments of likely concern. This reconnaissance will also serve to identify such factors as sensitive human and/or environmental receptors, and land use conditions of concern for subsequent input to or support of other tasks;
- preparation of a physical roadway condition survey (pavement analysis);
- identification of any potential Route 127 design and operational deficiencies.

COUNTY OF NYO

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Potential impact issues to be addressed in the course of this task shall include consideration of the County's physical infrastructure and emergency management/emergency response system. In addition, the study will identify and prioritize potential safety and operational issues and follow-on improvement projects, as well as provide the basis for subsequent NEPA/CEQA impact assessments focused on the County's natural environment, socioeconomic infrastructure, land use, and public health & safety.

### Meetings/Travel

- Route 127 roadway condition reconnaissance (estimated 3-day duration)

### Deliverables

- Three (3) copies each, plus a single computer disc containing a Word 6.0 version of a Draft and Final Route 127 Roadway Conditions/Operations Report

### Task II-3 -- CHP Route Selection Input

Task II-3 pertains to developing a strategy for County input into the CHP route designation process, as well as generating additional technical data for input to the DOE EIS (and EIR) process. Task II-3 work efforts include:

- input to administrative law review process regarding adequacy of CHP's approach (before submittal of route designations to USDOT)
- review of CHP's criteria for route selection/designation
- performance of a routing study, following federal guidance/requirements, as input to routing regulations
- evaluation of adequacy of CHP's CEQA compliance, supplemented by a legal sufficiency review by an experienced CEQA attorney; the analysis would focus on:
  - CHP's segmented Phase I/II approach (interstate followed by noninterstate)
  - cumulative impacts of interstate only selection
  - adequacy of categorical exemption
  - potential segmentation of CEQA compliance

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August 9, 1994

COUNTY OF INYO

DRAFT FY1995 ROW

**Meetings/Travel**

- One (1) meeting at the County's RAO.

**Deliverables**

- Three (3) copies each, plus a single computer disc containing a Word 6.0 version of a Draft and Final CHP Route Selection/Designation Adequacy Report

**OPTIONAL ELEMENT II ACTIVITIES**

**Route 127 Alternatives Analysis**

As a result of previous Tasks II-1 and II-2, it may be recommended that the County consider highway routing or rail transport alternatives to Route 127, which may be used in support of Task II-3 efforts detailed above. This optional task would comprise review, analysis, and evaluation of these potential transportation corridor alternatives. Historic traffic/accident data on alternative routes will be gathered from Caltrans or other agencies as necessary and appropriate. A written report will be prepared, which will identify, characterize, and evaluate potential alternatives to Route 127.

**Meetings/Travel**

To be determined if task is initiated.

**Deliverables**

To be determined if task is initiated.

**Radiological Transportation Risk Assessment**

As a result of preceding tasks, it may be appropriate to consider conduct of a radiological transportation risk assessment (RTRA), following federal guidance/requirements, focusing on County-specific potential public health, environmental, and economic issues. For this optional task, CH2M HILL would create a brief protocol describing intended conduct of the work, incorporating the following information:

- Modeling methodology containing source type, source-receptor configuration, local terrain, and model applicability.
- accident scenarios and release parameters to be addressed, including information necessary to support a complete characterization of the release event for the purpose of modeling.

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- Meteorological data to be used.
- Receptor configuration and sensitive receptor locations, including land use, population, and socioeconomic characteristics.
- Potency values and reference exposure levels.

**Meetings/Travel**

To be determined if task is initiated.

**Deliverables**

To be determined if task is initiated.

**PROJECT COST ESTIMATE AND ASSUMPTIONS**

CH2M HILL will perform the requested services outlined above on a Time and Materials basis for an estimated not-to-exceed cost of \$54,241. CH2M HILL 1994 per diem charge rates for professional and technician categories are listed on Attachment B-1 to this SOW. As requested by the County, the task-by-task costs of these services are derived on the basis of the following:

**WORK ELEMENT BREAKDOWN**

<b><u>Task</u></b>	<b><u>Labor*</u></b>	<b><u>Direct Costs</u></b>
II-2 Route 127 Conditions Analysis	\$22,512	\$ 1,220
II-3 CHP Route Selection Input	<u>29,289</u>	<u>1,220</u>
Subtotal	\$51,801	\$ 2,440
	<b>Total</b>	<b>\$54,241</b>

\*Includes travel, meeting, and project management

**PROJECT SCHEDULE**

Assuming receipt of formal authorization to proceed by September 1, 1994, we anticipate completion of Tasks II-2 and II-3 by 10/19/94 and 12/21/94, respectively. Attachment B-2 to this SOW illustrates presents a timeline of this schedule.

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August 9, 1994

COUNTY OF INYO

DRAFT FY1995 SOW

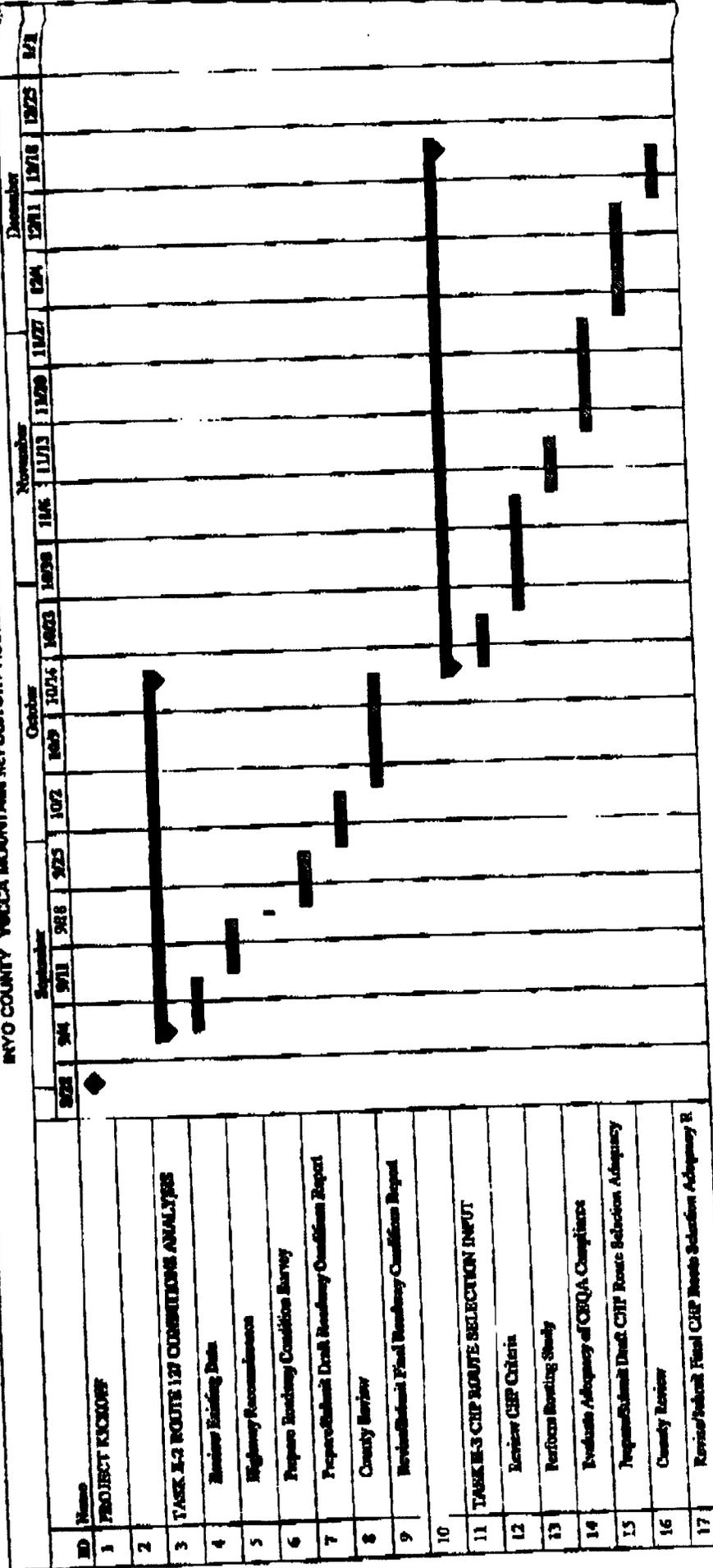
ATTACHMENT B-1

CH2M HILL  
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SCHEDULE NO. YW

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Rates are subject to adjustments on December 25, 1994.

INYO COUNTY WISCA MOUNTAIN REPOSITORY ASSESSMENT OFFICE



Planned  
 Progress  
 Milestone  
 Summary

ATTACHMENT A-2 FISCAL 1994 TASKS