



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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TO: Joseph Holonich, Director, HLPD, M/S 4 H 3  
FROM: Sr. On-Site Licensing Representatives' Office, Las Vegas  
DATE: March 4, 1994  
SUBJECT: OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK  
ENDING FEBRUARY 18, 1994

Please find enclosed the above-referenced information. There is nothing requiring specific management attention.

cc: w/enc.: Charlotte Abrams, M/S 4 H 3  
Anne Garcia, M/S 4 H 3

Enclosure as stated

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**DEPARTMENT OF ENERGY**  
Office of Civilian Radioactive Waste Management  
Office of Geologic Disposal  
Yucca Mountain Site Characterization Project Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608

WBS 1.2.9.2  
QA: N/A

**MAR 2 1994**

Daniel A. Dreyfus, Director, Civilian Radioactive Waste Management,  
HQ (RW-1) FORS

OFFICE OF GEOLOGIC DISPOSAL WEEKLY HIGHLIGHTS FOR THE WEEK ENDING  
FEBRUARY 18, 1994 (SCP: N/A)

**I. FORECAST SIGNIFICANT EVENTS**

**Site Characterization Activities**

Upcoming leadership and team building training includes "Seven Habits of Highly Effective People," April 19-22, 1994; "Teambuilding High-Performance Teams," April 28-29, 1994; "Team Leader Training," March 9-11, 1994; and "Conflict Resolution," March 22, 1994.

An acceptance inspection for the Tunnel Boring Machine is scheduled to be held at the Nicholson Manufacturing Company in Seattle, Washington, March 17-18, 1994.

The final 150 feet of NRG 7A will be completed within the next 30 days and pad work will begin on SD9 prior to initiating drilling.

**Site Characterization Testing**

Drilling will resume at NRG-7/7A, USW SD-12, and UE-25 NRG-2D. Excavation of the Large Block Test of Topopah Spring welded tuff will continue at the Fran Ridge site.

**II. CRITICAL ITEM STATUS - YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP)**

**A. Site Characterization Activities**

**Exploratory Studies Facility**

**Construction**

Regarding Job Package (JP) 92-20, Exploratory Studies Facility North Portal Pad and Facilities, drilling of test holes in the alcove have begun. The first of the three radial boreholes, ESF-AL1-RBT1, is cored to 47.66 feet.

Completed placement of bedding sand in the trench and installation of the pipe for the water line. Continued placing and compacting backfill (center loading) in water line trench between Well J-13 and the Booster Pump Station.

Continued erecting concrete batch plant.

MAR 2 1994

Daniel A. Dreyfus

-2-

Construction is continuing on the 69kV power distribution system with trenching for the duct banks and manholes on the North Portal Pad. Continued placing of rebar and pouring concrete for ductbanks and began installing electrical conduits.

The following milestone represents the near-term plan for Exploratory Studies Facility activities:

69kV power available  
at the North Portal

March 15, 1994

The above milestone was previously scheduled for February 14, 1994. It was delayed to March 15, 1994, due to additional work required to refurbish the 12.47kV switchgear to be used at the North Portal substation. This work was required to allow the use of the equipment as permanent instead of temporary as originally planned.

#### Design

Continued formal comment resolution from the 90 percent design reviews for Design Packages 2B and 1C. Completed resolution of comments from the 90 percent design review for Package 1C. Continuing design activities for Packages 1D and 2C.

#### Site Characterization Testing

Exploratory drilling operations progress is summarized as follows:

<u>Borehole</u>	<u>Current Core Depth 02/18/94</u>	<u>Current Ream Depth 02/18/94</u>	<u>Total Planned Depth</u>
UZ-14	1,442.1 feet	1,421.6 feet	2,000 feet
NRG-7/7A	1,243.4 feet	302.1 feet	1,445 feet
SD-12	77.8 feet	60.4 feet	

On UZ-14, work is still suspended pending completion of higher priority work; however, Stratmaster drilling equipment is being rigged up on the site.

On JP 93-15, Borehole NRG-7/7A, difficulties were encountered upon reentering the hole with new drill pipe.

On JP 94-04, SD-12 Borehole, construction started this week. The conductor pipe was set on February 11, 1994.

On JP 94-06, the pad is roughed out; final grading is in progress. The access road is started.

On JP 94-3, Borehole NRG-2C, auger drilling and sampling were completed. Final hole depth is at 150.9 feet. Standard Penetration Tests were performed at 5-foot intervals.

On JP 94-3, Borehole NRG-2D, auger drilling and sampling progressed from 38.1 feet to 105.1 feet. The Standard Penetration Tests were also performed.

On JP 93-11, C-Well Testing, assembly of the discharge line for pump testing is underway.

On Exploratory Studies Facility, core drilling began on the first of three planned 100-foot-long radial boreholes in the test alcove. The hole depth advanced to a distance of 72.7 feet this week.

MAR 2 1994

On trenching on the west side of Exile Hill, testing is temporarily suspended in Trench NRT-1. The trench is fenced and shored up in the lower elevation for further site investigation.

The planning and scheduling of an aerial photo mission by EG&G Energy Measurements, Inc., has been finalized. The helicopter mission is for several specific locations in Area 25, including Yucca Mountain Ridge, Fran Ridge, the LM-300 drill rig, and specific volcano, trench and fault sites as well as the site office.

Eight core examinations were conducted for the U.S. Geological Survey (USGS) at the Sample Management Facility.

The Sample Management Facility processed core and cuttings from USW SD-12, UE-25 NRG-2C, and UE-25 NRG-2D.

The following is a listing of site characterization field activities that are currently active:

SCP ACTIVITY	TITLE	COMMENTS
8.3.1.3.2.1	Mineralogy, Petrology & Rock Chemistry of Transport Pathways	Outcrop sampling
8.3.1.3.2.2	Mineralogic & Geochemical Alteration	Outcrop sampling
8.3.1.4.2.2	Structural Features within Site Area	Surface mapping, ESF mapping
8.3.1.8.5.1	Characterization of Volcanic Features	Test pits, trenching
8.3.1.14.2	Soil & Rock Properties of Potential Location of Surface Facilities	Test pits, trenching, ramp exploration holes
8.3.1.17.4.2	Location & Recency of Faulting Near Prospective Surface Facilities	Trench mapping
8.3.1.17.4.3	Quaternary Faulting within 100 km of Yucca Mountain, Nevada	Surface mapping
8.3.1.17.4.4	Quaternary Faulting in NE-Trending Fault Zones	Surface mapping
8.3.1.17.4.6	Quaternary Faulting within Site Area	Trench mapping
8.3.1.2.1.1	Precipitation & Meteorological Monitoring for Regional Hydrology	Ongoing measurements
8.3.1.2.1.2	Runoff & Streamflow	Ongoing measurements
8.3.1.2.2.1	Unsaturated Zone Infiltration	Drilling/logging of neutron-access holes; ponding tests
8.3.1.2.2.2	Water Movement Tracer Tests	C1-36 measurements
8.3.1.2.2.3	Percolation in Unsaturated Zone	UZ drilling/testing Perched water testing
8.3.1.2.2.4	Characterization of YM Percolation in UZ-ESF Investigation	Perched water
8.3.1.2.2.6	Gaseous Phase Movement in Unsaturated Zone	UZ drilling/testing
8.3.1.2.2.7	Unsaturated Zone Hydrochemistry	UZ drilling/testing
8.3.1.2.3.1	Site Saturated Zone Groundwater Flow System	Ongoing monitoring
8.3.1.2.3.2	Saturated Zone Hydrochemistry	Ongoing sampling
8.3.1.15.1.8	In Situ Design Verification	Construction monitoring/testing

MAR 2 1994

Environmental Safety and Health Programs

The Safety and Health Division conducted 28 surveillances during this reporting period.

An overview of Radiological and Meteorological programs was presented at the Technical Program Review held in Las Vegas, Nevada, February 14-18, 1994.

Large Block Test

Sawing of the final side of the Large Block Test to Topopah Spring welded tuff was initiated.

Regulatory InteractionsSite Characterization Plan/Study Plan Status

No study plans were approved by YMPO this week. Two study plans: 8.3.1.8.2.1, Revision 1, "Tectonic Effects: Evaluations of Changes in the Natural and Engineered Barrier System Resulting from Tectonic Effects and Processes;" and 8.3.1.17.3.1, Revision 1, "Relevant Earthquake Sources," were submitted for review to YMPO this week.

Study plans on Ground Motion study plan were prepared for technical review by Ivan Wong.

## Study Plan Breakdown

	Initial Plans	Major Revisions
Not Submitted to YMPO .....	35	0
In Screening Review .....	0	2
In YMPO Review .....	3	0
Awaiting Comment Resolution .....	3	3
In Verification Audit .....	5	1
Awaiting YMPO Approval .....	1	0
Awaiting Submission to NRC .....	0	0
Awaiting NRC Initial Review .....	7	5
Accepted by NRC .....	50	6
<b>Totals .....</b>	<b>104</b>	<b>17</b>
<b>Total Submitted to NRC .....</b>	<b>57</b>	<b>10</b>

State of Nevada Comments Status:

Received Comments from the State of Nevada.....	31
Responses Transmitted to the State of Nevada .....	19

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 NRC Comments Status:

Received Comments from NRC .....	29
Responses Transmitted from U.S. Department of Energy (DOE) to NRC .....	25

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 B. Project Planning and Control

YMP staff, project participants and DOE/Headquarters representatives participated in an in-depth technical program review during the week of February 14-18, 1994. This technical program review was open to the members of the public, and was attended by representatives from the NRC, Environmental Protection Agency, State of Nevada, Nye, Clarke, and Inyo Counties, the Edison Electric Institute, Senator Hickey, and others. The meeting was considered to be a success, and such technical program reviews will be held at least annually.

Researched baseline milestone status. Documented and reported findings to J. Russell Dyer, Deputy Project Manager.

Coordinated and facilitated participant cost and schedule status upload.

 C. Quality Assurance Implementation

No significant activities to report.

 III. GENERAL INFORMATION ITEMS

Assisted in preparation of briefing material for the Office of the Civilian Radioactive Waste Management (OCRWM) Congressional Budget Hearings.

Reviewed West Valley Waste Compliance Plan and Defense Waste Processing Facility Waste Qualification Report, Volumes 7 and 10, in preparation for the Technical Review Group meeting in Dallas, Texas, February 23-25, 1994.

Prepared listing and description of fiscal year 1994 Yucca Mountain activities for OCRWM.

Monitored Occurrence Reporting Processing System data. Identify need for Program Manager review of the last Office of Geologic Disposal Occurrence on system. Plan for attendance at Spring Workshop in St. Louis, Missouri.

Supported preparation of Daniel Dreyfus Briefing Book.

Delivered proposed framework to facilitate planning and integration of the Geologic Repository Program.

Tests were initiated at Argonne National Laboratory to evaluate the long-term performance of spent fuel in the potential repository under unsaturated conditions at 90 degrees Celsius (C). The tests include two with a saturated water vapor atmosphere; two tests with a drip rate of

MAR 2 1994

0.075 ml/3.5 d which is representative of repository water flow conditions; and two tests with a drip rate of 0.75 ml/35.6 d to simulate the effect of a higher volume, less frequent water flow. A control test without fuel but with a 0.075 ml/3.5 d drip rate is also included. The EJ-13 water for the tests came from Well J-13 and had been equilibrated with volcanic tuff for approximately 80 days at 90 degrees C. Similar tests on uranium oxide, have been ongoing for about eight years.

Completed and submitted the initial draft of the Field Management Plan to the Site Manager for approval.

Attended a DOE-sponsored workshop on the Operations and Maintenance Program.

Monitored a hantavirus information briefing for Reynolds Electrical & Engineering Co., Inc. (REECo), maintenance personnel.

Reviewed and commented on the Technical and Management Support Services Safety and Health Plan, Revision 5, and draft FOI 5504, Project Accumulation Area Plan.

Regarding rock characteristics, mapping continued on the Ghost Dance Fault at Antler Ridge Pavement 1 (ARP-1) this week. Smaller-scale rock fabric features are flagged at ARP-1, and fractures are also marked on the Fran Ridge pavement in preparation for aerial photography next week.

Regarding tectonics, some mapping and field checks were performed on the Paintbrush Canyon Fault exposure on Busted Butte and in two older trenches on the Windy Wash Fault in Crater Flat.

Regarding Surface Runoff Studies, USGS personnel were on site this week to collect streamflow and rainfall data from areas on and around Yucca Mountain.

Regarding Unsaturated Zone Studies, air permeability testing continued at UE-25 UZ-16. Water content measurements on core chips continued in the laboratory, and some experimental geophysical logging measurements were made on UE-25 UZN-85 to help develop quality-affecting USGS procedures for neutron moisture and gamma-ray density logs.

Regarding Saturated Zone Studies, continued assembly, maintenance, and modification of data-logging equipment on the C-wells.

#### IV. PUBLIC OUTREACH AND INSTITUTIONAL ACTIVITIES

Various YMP staff participated in the 1994 DOE Nevada Regional High School Science Bowl, February 11-13, 1994, in Las Vegas. Approximately 200 high school students and teachers from Utah, Arizona, California, and Nevada, participated.

Tours to Yucca Mountain were conducted on February 15, 1994, for a guest from Western Mining Corporation; on February 16, 1994, for 120 students from Quannah McCall School; and on February 18, 1994, for 60 students from South Mountain High School.

A general project overview and update was given to 30 students at White Pine County High School in Ely, Nevada, on February 16, 1994.

A presentation on Native American culture was given to 120 students at Roy Martin Junior High School, on February 16, 1994, in Las Vegas.

MAR 2 1994

An educational presentation on energy was given to 100 students at C. P. Squires Elementary School on February 15, 1994, in Las Vegas. An educational presentation was also given on caving to 130 students at Ernest A. Becker Middle School on February 18, 1994, in Las Vegas.

Sixty fifth grade students from John R. Beatty Elementary School toured the Las Vegas Yucca Mountain Science Center and participated in a geology workshop presented by YMP staff on February 17, 1994.

The YMP staff, State of Nevada officials, and White Pine County cosponsored and conducted a Neighborhood Dialogue on Yucca Mountain at the White Pine County Town Meeting in Ely on February 16, 1994. This was the first in a series of Neighborhood Dialogues.

The YMP staff attended the Joint City/County Impact Alleviation Committee meeting in Caliente, Nevada, on February 16, 1994. They also attended a lecture by Phillip Richardson, a Greenpeace consultant, sponsored by the University of Nevada, Las Vegas, Environmental Studies Program on February 15, 1994, in Las Vegas.

A YMP technical exhibit was on display for the Society for Mining and Metallurgy February 14-16, 1994, in Albuquerque, New Mexico. Approximately 500 people visited the displays.

The YMP staff completed the new work video monthly update.

Two YMP staff members were honored by the Las Vegas Chapter of the International Association of Business Communicators for video productions. Sean Patrick and Bob Clark received Awards of Merit for the videos, "October 1993 New Work Update," and "Hydrologic Research Facility," respectively.

#### V. UPCOMING EVENTS CALENDAR

Please note that the usage of "(P)" in the calendar indicates that the event is open to the public. Educational presentations and State and Public Interactions are coordinated by the Speakers Bureau; contact Jackie Brandt at (702) 794-7896 or Theresa Hirsch at (702) 794-7759 for additional information. Exhibits are coordinated by Joanna Magruder at (702) 794-7056, Public Update Meetings are coordinated by Jamie Elliott at (702) 794-7769, and Tours are coordinated by Carleen Hill at (702) 794-7375 or Kelly Doyle at (702) 794-7133.

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>A. <u>Stakeholders Meetings</u></b>			
No significant meetings to report.			
<b>B. <u>DOE/Headquarters Meetings</u></b>			
Monday-Friday, February 14-18	DOE/YMP Technical Program Review	Las Vegas, NV	R. Nelson
Wednesday, February 17	Office of Civilian Radioactive Waste Management Directors Program Review (P)	Video- Conference	R. Nelson

MAR 2 1994

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>C. <u>CRWMS M&amp;O/DOE Meetings</u></b>			
Tuesday, February 22	CRWMS M&O Program Management Review	Video- Conference	R. Nelson
<b>D. <u>Internal and DOE Nevada Operations Office Meetings (DOE/NV)</u></b>			
Wednesday, February 23	DOE/NV Manager's Program Review	Las Vegas, NV	R. Nelson
Wednesday, February 23	DOE/YMP Design Integration Workshop	Las Vegas, NV	P. Stucker
Friday, February 25	Project Manager/ Technical Project Officer Meeting (P)	Las Vegas, NV	R. Nelson
Friday, February 25	Planning & Budget Meeting	Las Vegas, NV	R. Nelson
Friday, March 4 (Tentative)	Annual YMP Safety & Health Awareness Program (P)	Las Vegas, NV	R. Nelson
Thursday-Friday, March 17-18	Total Quality Management Offsite	Las Vegas, NV	R. Nelson
<b>E. <u>NRC Interactions</u></b>			
Tuesday- Wednesday, March 15-16	NRC Technical Exchange on Status of Work Relevant to Characterization of Saturated and Unsaturated Flow (P)	Denver, CO	T. Bjerstedt
<b>F. <u>Nuclear Waste Technical Review Board (NWTRB) Interactions</u></b>			
Tuesday- Wednesday, March 8-9	NWTRB - Structural Geology and Geoengineering Panel (P)	San Francisco, CA	D. Williams
Thursday- Friday, March 10-11	NWTRB - Engineered Barrier System (EBS) Panel (P)	Pleasanton, CA or TBD	W. Simecka
Monday- Tuesday	NWTRB - Environment and Public Health	Las Vegas, NV	W. Dixon

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>YMPO Contact</u>
<b>G. <u>ACNW Interactions (Continued)</u></b>			
Tuesday, March 22	ACNW Working Group on Low-Level Waste PA	Bethesda, MD	A. Gil
Wednesday- Thursday, March 23-24	62nd ACNW Meeting Topic TBD (P)	Bethesda, MD	A. Gil
<b>H. <u>National Academy of Sciences (NAS) Interactions</u></b>			
Thursday- Friday, April 28-29	NAS Committee on Yucca Mountain Standards (P)	Las Vegas, NV	S. Jones
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>I. <u>State and Public Interactions</u></b>			
Saturday, February 19	National Organiza- tion for Women - General Overview	Las Vegas, NV	TBD
Tuesday, February 22	Fremont Middle School - Caving	Las Vegas, NV	L. Cuba
Tuesday, February 22	Yucca Mountain Speaker Series (P) - "Fossils Tell a Story"	Las Vegas, NV	A. Gil
Wednesday, February 23	Carson High School - General Overview	Carson City, NV	J. Peck
Thursday, February 24	Yucca Mountain Speaker Series (P) - "Fossils Tell a Story"	Beatty, NV	A. Gil
Monday- Saturday, February 28- March 12	JASON Project - "Rain Forest"	Las Vegas, NV	E. Harle
Tuesday, March 1	John S. Park Elementary School - Geology	Las Vegas, NV	J. Sizemore M. d'Ouille
Tuesday, March 1	Solo Club - Native American Culture	Las Vegas, NV	R. Arnold
Thursday, March 3	Waste Management Symposium - Update on Site Characterization	Tucson, AZ	M. Blanchard

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>I. <u>State and Public Interactions</u> (Continued)</b>			
Monday, March 7	Derfelt Elementary School - Native American Culture	Las Vegas, NV	R. Arnold
Tuesday, March 8	Roy Martin Junior High School - Environmental	Las Vegas, NV	T. Pysto
Wednesday, March 9	Youth Leadership Las Vegas Program - Environmental	Las Vegas, NV	D. Bradford M. d'Ouille
Thursday, March 10	Fremont Middle School - General Overview/Geology	Las Vegas, NV	D. Merritt
Saturday, March 12	Expanding Your Horizons - Math & Science	Las Vegas, NV	A. Gil L. Linden
Monday, March 14	Silver Rim Elementary School - "Gee Whiz Science"	Tonopah, NV	J. Blink
Tuesday, March 15	Hawthorne - "Gee Whiz Science"	Hawthorne, NV	J. Blink
Tuesday, March 15	Ute Perkins Elementary School - Energy	Las Vegas, NV	J. Sizemore M. d'Ouille
Wednesday, March 16	American Nuclear Society - TBD	San Diego, CA	J. Peck
Wednesday, March 16	Incline Elemen- tary School - "Gee Whiz Science"	Incline, NV	J. Blink
Wednesday, March 16	Bill Yonema Tomiyasu Elementary School - Energy	Las Vegas, NV	J. Sizemore M. d'Ouille
Wednesday, March 16	San Diego Association of Geologists - General Overview	San Diego, CA	G. Fasano
Thursday, March 17	Incline Middle School - "Gee Whiz Science"	Incline, NV	J. Blink

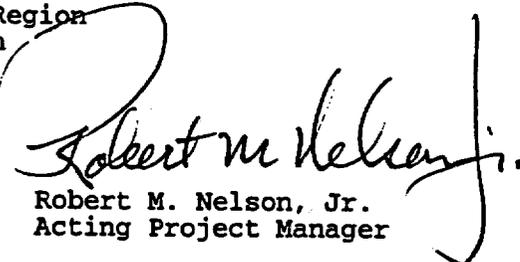
<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>Speaker</u>
<b>I. <u>State and Public Interactions</u> (Continued)</b>			
Thursday, March 17	William R. Lummis Elementary School - "Yucca Mountain Johnny"	Las Vegas, NV	J. Hartley
Thursday, March 17	Bill Yonema Tomiyasu Elementary School - Energy	Las Vegas, NV	J. Sizemore M. d'Ouille
Thursday, March 17	William R. Lummis Elementary School - Metric System	Las Vegas, NV	L. Cuba
Friday, March 18	Tonopah Elemen- tary School - Nye County Egg Drop	Tonopah, NV	J. Blink
Friday, March 18	Association of Girl Scouts Executive Staff - Native American Culture	Las Vegas, NV	R. Arnold
Sunday, March 20	Risk Management Quarterly Association - TBD	San Diego, CA	TBD
Monday, March 21	Southern Nevada Science Fair - Science Fair	Las Vegas, NV	Various
Wednesday, March 23	Johnson Junior High School - Paleontology	Las Vegas, NV	A. Gil
Thursday, March 24	Moonstruck Gallery - Native American Culture	Las Vegas, NV	R. Arnold
Sunday, March 27	Yucca Mountain Speaker Series (P) - "Desert Beauties - Spring Wildflowers"	Pahrump, NV	K. Wirtz
Tuesday, March 29	Yucca Mountain Speaker Series (P) - "Desert Beauties - Spring Wildflowers"	Las Vegas, NV	K. Wirtz
<u>Date</u>	<u>Event</u>	<u>Location</u>	
<b>J. <u>Exhibits Scheduled</u></b>			
Saturday, February 26	Public Open House (P)	Las Vegas, NV	

<u>Date</u>	<u>Event</u>	<u>Location</u>
<b>J. Exhibits Scheduled (Continued)</b>		
Sunday- Thursday, February 27- March 3	Waste Management Symposia	Tucson, AZ
Saturday, March 19	Public Open House (P)	Las Vegas, NV
Monday- Wednesday, March 21-23	Geological Society of America - Cordilleran Section	San Bernardino, CA
Thursday, March 24	Green Valley Civic Association Network	Henderson, NV
<u>Date</u>	<u>Event</u>	<u>Escorts</u>
<b>K. Tours Scheduled</b>		
Thursday, February 24	Inyo County Grand Jury	TBD
Friday, February 25	Japan Atomic Industrial Forum	TBD
Saturday, February 26	Public Open House (P)	Various Escorts
Thursday, March 3	Japan Electric Power Information Center, Inc.	TBD
Tuesday, March 8	St. Cloud State University (MN)	TBD
Wednesday, March 9	YMP Orientation	TBD
Thursday, March 10	Laughlin High School	TBD
Tuesday, March 15	Jewish War Veterans	TBD
Wednesday, March 16	Fremont Middle School	TBD
Saturday, March 19	Public Open House (P)	Various Escorts
Monday, March 21	NWTRB	W. Dixon
Tuesday, March 22	Boulder City Bureau of Reclamation	TBD

MAR 2 1994

<u>Date</u>	<u>Event</u>	<u>Escorts</u>
K. <u>Tours Scheduled</u> (Continued)		
Wednesday March 23	LLNL Science and Engineering Research Semester Students	TBD
Wednesday, March 23	Fremont Middle School	TBD
Tuesday, March 29	W. Mac Lyon Middle School	TBD
Thursday, March 31	National Council, State Garden Club Specific Region Convention	TBD

YMP:CLH-2207



Robert M. Nelson, Jr.  
Acting Project Manager