



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

APR 5 1988

Mr. Ralph Stein, Acting Director  
Licensing and Regulatory Division  
Office of Geologic Repositories  
Office of Civilian Radioactive  
Waste Management  
U.S. Department of Energy RW-24  
Washington, D.C. 20545

Dear Mr. Stein:

During the period March 21-24, 1988, a workshop was held between representatives of the DOE and NRC in the NRC White Flint North Building in Rockville, Maryland. The purpose of the workshop was to ensure a common understanding of the NRC staff concerns expressed in the draft point papers on DOE's Consultation Draft Site Characterization Plan (CDSCP) for the Yucca Mountain, Nevada site.

Enclosed is the Report of the subject workshop. If you have any questions concerning this Report, please contact John Linehan (492-0411) of my staff.

Sincerely,

B. J. Youngblood, Chief  
Operations Branch  
Division of High-Level Waste Management  
Office of Nuclear Materials Safety  
and Safeguards

Enclosure: As stated

cc: R. Loux, State of Nevada  
C. Gertz, DOE-NV/WMPD

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APR 5 1988

CDSCP WORKSHOP STEIN LETTER

- 1 -

Mr. Ralph Stein, Acting Director  
Licensing and Regulatory Division  
Office of Geologic Repositories  
Office of Civilian Radioactive  
Waste Management  
U.S. Department of Energy RW-24  
Washington, D.C. 20545

Dear Mr. Stein:

During the period March 21-24, 1988, a workshop was held between representatives of the DOE and NRC in the NRC White Flint North Building in Rockville, Maryland. The purpose of the workshop was to ensure a common understanding of the NRC staff concerns expressed in the draft point papers on DOE's Consultation Draft Site Characterization Plan (CDSCP) for the Yucca Mountain, Nevada site.

Enclosed is the Report of the subject workshop. If you have any questions concerning this Report, please contact John Linehan (492-0411) of my staff.

Sincerely,

B. J. Youngblood, Chief  
Operations Branch  
Division of High-Level Waste Management  
Office of Nuclear Materials Safety  
and Safeguards

Enclosure: As stated

cc: R. Loux, State of Nevada  
C. Gertz, DOE-NV/WMPO

REPORT OF  
NRC/DOE WORKSHOP  
NRC DRAFT POINT PAPERS ON THE  
CONSULTATION DRAFT SITE CHARACTERIZATION PLAN (CDSCP)  
FOR THE YUCCA MOUNTAIN, NEVADA SITE  
MARCH 21-24, 1988

During the period March 21-24, 1988, a workshop was held at NRC offices in Rockville, Maryland, to discuss the NRC draft point papers relating to the DOE's Consultation Draft Site Characterization Plan (CDSCP) for the Yucca Mountain, Nevada site issued January 8, 1988. The NRC draft point papers were provided to DOE and the State of Nevada by letter dated March 7, 1988 and were made available to workshop participants prior to the workshop. The purpose of the workshop was to provide clarification of the NRC staff concerns expressed in the draft point papers. The agenda is included as Attachment 1 and the lists of participants for each day of the workshops are provided in Attachments 2, 3, 4, and 5. The workshop discussions addressed each NRC point paper (objection, comment or question) by discipline as shown on the Key to CDSCP Draft Point Papers by Discipline (Attachment 6).

During the workshop discussions the DOE asked NRC to clarify some of the objections, comments, and questions but required no clarification of others. For some point papers, DOE pointed out other sections of the SCP where reviewers could find information related to the points raised. During the discussions, some topics were identified where more interactions between technical staff appeared necessary.

The DOE and NRC staff stated that the workshop provided useful interactions. The workshop discussions will be factored into the NRC's final point papers and the DOE's statutory SCP.

The State of Nevada representatives were present for the entire workshop. In their opening remarks, they indicated that they were in attendance only as observers in their oversight role. They were invited to comment throughout the workshop, but during the various sessions had no comments on the DOE program or the NRC draft point papers. In the Quality Assurance session, they did note that the State will be submitting its QA plan to NRC for review and approval at the end of April. They also provided the following written comments for inclusion into this report:

STATE OF NEVADA COMMENTS

1. Purpose of these workshops was for the DOE to receive clarification on the NRC comments on the CDSCP. The State has reviewed the comments and understands and agrees with the thrust of their meaning.
2. The position of the State on the CDSCP as expressed at the January 28-29 SCP plenary meeting in Reno is that the DOE should issue the statutory SCP as required by the NWPA. The CDSCP is incomplete as the document does not contain technical study plans nor environmental compliance documents. The State cannot conduct a thorough review without complete documentation. The State does not consider these workshops to be a substitute for any State/DOE workshops to be conducted relative to the SCP.

CDSCP WORKSHOP STEIN LETTER

OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

LETTER FOR: Stein, DOE  
 FROM: Youngblood, HLOB  
 SUBJECT: CDSCP WORKSHOP DOE AND NRC  
 DATE: APR 5 1988

DISTRIBUTION

HLWM/SF	NMSS RF	RBrowning, HLWM
MBell, HLWM	JBunting, HLSE	BJYoungblood, HLOB
RBallard, HLTR	JLinehan, HLOB	KStablein, HLOB
SCoplan, HLOB	PDR	LPDR
CNwRA	LSS	ETana, HLOB
PPrestholt	RJohnson	JKennedy, HLOB

CONCURRENCES

ORGANIZATION/CONCUREE	INITIALS	DATE CONCURRED
HLOB/KStablein	<u>NKS</u>	4/05/88
HLOB/JLinehan	<u>[Signature]</u>	4/5/88
HLOB/BJYoungblood:km	<u>[Signature]</u>	4/5/88

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 MH-14  
 delete all draft except  
 CF, PDR, LPDR, TLSS  
 CNwRA

NRC/DOE WORKSHOP  
 NRC DRAFT POINT PAPERS ON THE  
 CONSULTATION DRAFT SITE CHARACTERIZATION PLAN (CDSCP)  
 FOR THE YUCCA MOUNTAIN, NEVADA SITE  
 MARCH 21-24, 1988

**March 21, 1988 (Room 2-F-17)**

Introduction and Opening Remarks, NRC (J. Linehan)	8:30
Scope of NRC Review of CDSCP (K. Stablein)	9:00
Opening Remarks, DOE (R. Stein)	9:30
Opening Remarks, State of Nevada	9:45
NRC Objections and Comments Pertaining to Inconsistencies with Regulatory Requirements	10:00
Break	10:45
NRC Objections (continued)	11:00
Lunch	12:00
NRC Concerns in Performance Assessment	1:30
Break	3:30
NRC Concerns in Design/Rock Mechanics	3:45
Adjourn	6:00

**March 22, 1988 (Room 2-F-17)**

NRC Concerns in Geology/Geophysics	8:30
Break	10:15

NRC Concerns in Geology/Geophysics (continued)	10:30
Lunch	12:00
NRC Concerns in Hydrology	1:30
Break	3:15
NRC Concerns in Hydrology (continued)	3:30
Adjourn	5:00

**March 23, 1988 (Room 14-B-11)**

NRC Concerns in Waste Package	8:30
Break	10:15
NRC Concerns in Waste Package (continued)	10:30
Lunch	12:00
NRC Concerns in Geochemistry	1:30
Break	3:15
NRC Concerns in Geochemistry (continued)	3:30
Adjourn	5:00

**March 24, 1988 (Room 14-B-11)**

NRC Concerns in Quality Assurance	8:30
Break	10:00
NRC Concerns in Quality Assurance (continued)	10:15

Closing Remarks	11:30
°NRC	
°DOE	
°State of Nevada	
Adjourn	12:15
Lunch	12:15
Preparation of Meeting Record	1:30

LIST OF ATTENDEES

YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 21: Introduction and Discussion of NRC Objections  
Workshop 1 - Performance Assessment  
Workshop 2 - Engineering

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
DWEN THOMPSON	DOE - Licensing	586-5003
Gordon Appel	DOE-CH/SRPO	(806) 364-8920
Mark W. Frei	DOE-HQ/Engr'ing	586-9322
STEPHAN BROCOUM	DJE/HU/Geoscience	202 586-9862
King Stabler	NRC/NMSS/DHLWM/OB	301-492-0446
JOHN LINEHAN	NRC/DHLWM/HLOB	301-492-0411
DINESH GUPTA	NRC/DHLWM/HLTR	301-492-0547
PAULINE BROOKS	NRC/DHLWM/HLOB	301-492-0404
JAMES E. Kennedy	NRC/DHLWM/HLOB	301-492-3402
TOE YOUNG-BLOOD	NRC/DHLWM/HLOB	301-492-3387
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CARL JOHNSON	NU NUCLEAR WASTE PROJ OFF	702 885-3744
Tim Crane	TRW	203 812-2837
Owen S. Merrill	NRC/AORS	(202) 634-1413
Kim Stein	Babcock + Wilcox	(804) 385-3308
INT B. ALTERMAN	DOE/HQ GSB	(202) 586-1462
ELLEN TAYLOR	WESTON	(202) 646-6643
DEBORAH JARZ	WESTON	(202) 646-6728
Bill WOWAK	WESTON	(202) 646-6690
Edward Regnier	DOE/HQ	(202) 586-4959
VIC MONTENVOHL	WESTON	(202) 646-6642
Mike Lugo	WESTON/JACOBS	(202) 646-6756

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YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
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Workshop 2 - Engineering

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
BILL BELKE	NRC/QA	301 492-0445
Wayne Walker	NRC/OB	301-492-0447
James Donnelly	NRC/QA	301-492-0453
Raymond H. Wallace, Jr	USGS-WR/DOE-OGA	(202) 586-5264
Glen L. Faulkner	USGS/DOE HQ	(202) 586-1464
A. K. Ibrahim	NRC/ST	301-492-0593
NANCY MONTGOMERY	UNWMO	202/778-6513
CHED BRADLEY	DOE/ESH	202 586-4629
Richard Collin	NRC	301 492 0408
Paul Kim Wynn	SAI	953-1262
R. F. Williams	EPRI	415-855-2064
MICHAEL A. BAUSER	NEWMAN & HOLTZINGER (for UNWMO)	(202) 955-6669
JOHN W. BARTLETT	TASC for UNWMO	617-942-2060
David Siefken	WESTON	(202) - 646-6617
Ron Ballard	USNRC/HLTR	(301)-492-3455
Harold E. Lefevre	NRC/HLWM/GEOL-GEOP	301-492-3464
Jean L. Younker	SAIC/DOE-NV	702-295-8650
Emmy Booy	NRC/RES/WMB	301-492-3843
Ralph Stein	DOE-HQ	301-586-5355
Jim Wolf	NRC/OGC	301-492-1641
M. Cline	WESTON	
J. LANKSTON	DOE	

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
RICK WELLES	NRC/HLWM/HLTR	492-3458
ALLEN CHANG	NRC/HLWM/HLTR	492-0525
Donald L. Cherry Jr.	NRC/HLWM/HLTR (Hydrology)	492-3461
Mysore Nataraja (Raj)	NRC/HLWM/TRB/GTS	492-3459
John S. TRAPP	NRC/HLTR/Geo	492-0509
Jaak Daemen	Unit A21	(602) 621 2501
Loren Long	Fluor Corp. H <sub>2</sub> O Group	(612)-622-9599
John Peshel	NRC/HLWM/TR	492-0537
David Brooks	NRC/HLWM/TR	492-3457
J. Bennett	DOE/HQ	202-225-1111
Donald Alexander	DOE-HQ	586-1238
Maxwell Blanchard	DOE-NV	FTS 575-8939

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
Daniel A. GALSON	NRC	(FTS) 492-0405
DAVID E. THOMAS	NRC	(FTS) 492-0433
JEROME R. PEARRING	NRC	FTS 492-0508
David F. Fenster	Weston	(202) 646-6731
Seth M. Coplan	NRC/HLOB	FTS 492-0410
DONALD J. LESLIE	NRC	492-0657
THOMAS A. COTTON	JK ASSOCIATES	(301) 587-7098
Wm. M. Spector	DCE/CCRUM	FTS - 876-8889

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
Charlotte Abrams	US NRC	492-0512
William Bailey	TRW	968-1600
LEN SKoblar	WESTON	646-6660
Keith McConnell	USNRC	492-0532
FRED ROSS	USNRC	492-0527
John Bradbury	USNRC	492-0535
D.H.(Dan) Chung	LLNL	415-422-0268 ( FTS 532-0268 )
Nancy Vohura	US NRC	492-0437
Mike Bell	USNRC	FTS 492-3406
Jeff Kimball	USDOE	FTS 896 1063
Michael Blackford	USNRC	492-0524
NORMAN A. EISENBERG	USDOE	(202) 586-1239

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
U-Sun Park	SAIC/DOE-NV	702-733-9958
Mary D. Ricketson	Weston Performance Assessment	(202) 646-6658
CARL GERTZ	DOE-NV	702-295-8920
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LARRY SKOUSEN	DOE/NV	(702)-295-8929
DAVID MICHEWICZ	WESTON	(202) 646-6659
Robert Gamble	Weston	202-646-6758
Bill Hewitt	Weston	202-646-6610
William Ford	NRC	301-492-0506
Joy L. Smith	UNWMB	213-895-5795
Philip Berger	Energetics/DOE	(801) 992-4000
PHILIP JUSTUS	USNRC GEOLOGY-GEOPHYS	301 492 3460
Jerry King	SAIC/NNWSI	(702) 295-9649
Nadia Darym	Weston/Jacobs	202-646-6685
Dean Stocker	DOE/OCRWM	(202) 586-1244
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<u>John A. Blair</u>	Weston/Wms. Bros.	(202) 646-6682
JOAN D. JENKINS	WESTON/JACOBS	(202) 646 6673

(1)

LIST OF ATTENDEES

YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 22: Workshop 3 - Geology/Geophysics  
Workshop 4 - Hydrology/Climatology

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
Donald H. Alexander	DOE HQ	586-1238
Maxwell Blanchard	DOE-NV	FTS 575-8939
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DH Chung	HLNL	415-422-0268
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DAVID J. TILLSON	NEVADA NRC	502-305-2515
Steve Freshman	NV - NRC	702-585-3747
William Ford	NRC hydrology	301-492-0504
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John F. Schneider	EPRI	(410) 895-7121

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
ROBERT B. RAUP, Jr	USGS/GD	(303) 236-1272 FTS 776-1272
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King Stabler	NRC/NMSS/OHLWM/OD	301-492-0446
A.K. Ibrahim	NRC/HA	301-492-0523
Charlotte Abrams	NRC	492-0512
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Michael Blackford	NRC	492-0524
Carl Johnson	NEVADA	702 885-3744
Philip Berger	Energetics/DOE/EH	(301) 992-4000
Ron Ballard	USNRC/HLTR	301 492-3455
Jeff McCleary	WCC	415-874-1709
NANCY MONTGOMERY	EEL/UNWMO	208/778-6513
Daniel A. GALSON	NRC	(FTS) 492-0405
Pauline Brooks	NRC/HLOE	492-0464

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
David F. Fenster	Weston	(202) 646-6731
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Jerry L. King	SAIC	702 295-8648
Deborah Jerez	Weston	(202) 646-6728
Steve Sinnach	Sandia	505 846-0081
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MYSORE Nataraja	NMSS/HLWM/TRB	301-492-3459
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John Bradburn	NMSS/HLWM/TRB	492 0535
JEFFREY A. POISHE	NMSS/HLWM/HLTR	492-0545
Frederick W. Ross	NMSS/HLWM/HLTR	492-0527

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YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 23: Workshop 5 - Waste Package  
Workshop 6 - Geochemistry

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
Owen Thompson	DOE - Licensing	(202) 586-3003
Mark W. Frei	DOE - OGR Engineering	(202) - 586-5355
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Steve Fishman	NV - NWPC	702/885-3744
JOHN F. ...	CPRT	415/855-7921
CARL JOHNSON	NEVADA	702 885-3744
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AL ...	...	(301) 492 0531
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Kim Stein	Babcock & Wilcox	804-385-3308
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NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 23: Workshop 5 - Waste Package  
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<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
CARL GERTZ	DOE-NV	702-295-8920
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Steve Gomberg	DOE-HQ	FTS 896-5560
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NANCY MONTGOMERY	UNWMO	202/778-6513
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Anna C. Straker	Nat. Bur. Stds.	301-975-6009
King Stablein	NRC/NMSS/DHLWM/013	301-492-0446

LIST OF ATTENDEES

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3-23-88

YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 23: Workshop 5 - Waste Package  
Workshop 6 - Geochemistry

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
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DON OAKLEY	LANL	505 667-1310
Don Alexander	DOE HQ	586-1238
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YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 24: Workshop 7 - Quality Assurance

<u>NAME</u>	<u>ORGANIZATION</u>	<u>TELEPHONE NO.</u>
OWEN THOMPSON	DOE - Licensing	202) 586-5003
James Donnelly	NRC	FTS 492-0543
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Jim Kennedy	NRC	FTS (301) 492-3402
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Emily Booy	NRC-RES	FTS 492-3843
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Deborah Jerez	Weston	202-646-6728
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Steve Fishman	NV-NWPC	702/585-3744
KARL SOMMLER	DOE/OA	202-586-1639
King Steblein	NRC/NMSS/OHLWM/OB	301-492-0446

LIST OF ATTENDEES

YUCCA MOUNTAIN SCP/CD CONSULTATION WORKSHOPS  
(MARCH 21-24, 1988)  
NRC WHITE FLINT NORTH BUILDING, ROCKVILLE, MD

March 24: Workshop 7 - Quality Assurance

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Nancy Voltura	NRC/HLWM	FTS 492-0437
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Emmy Booy	NRC/RES/WMB	FTS 492-3843

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## KEY TO CDSCP DRAFT POINT PAPERS BY DISCIPLINE

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