

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

BEFORE THE ATOMIC SAFETY AND LICENSING BOARDS

In the Matter of	Docket No. 63-001-HLW
U.S. DEPARTMENT OF ENERGY	ASLBP Nos. 09-876-HLW-CAB01
(High-Level Waste Repository)	09-877-HLW-CAB02
	09-878-HLW-CAB03
	09-892-HLW-CAB04

October 13, 2009

**INYO COUNTY, CALIFORNIA'S
INITIAL IDENTIFICATION OF PARTY WITNESSES**

Pursuant to Section C.1 of "CAB Case Management Order #2," issued on September 30, 2009, the County of Inyo, California ("Inyo County") hereby submits this identification of Party Witnesses. Two (2) of Inyo County's contentions, INY-SAFETY-003 and INY-NEPA-006, which have been admitted to this proceeding, are identified in CAB Case Management Order #2 as being associated with Phase I discovery. Inyo County hereby identifies Dr. Eugene I. Smith PhD as the witness who is currently intended to be called at hearing to provide testimony in support or defense of INY-SAFETY-003 and INY-NEPA-006.¹

¹ Clark County, the State of Nevada and Inyo County, California have filed a joint proposal to consolidate certain contentions pertaining to igneous activity. As part of that proposal, INY-SAFETY-003 would be consolidated with NEV-SAFETY-153 and CLK-SAFETY-006. In conjunction with that filing, Counsel for Inyo County authorized counsel for Clark County to state in Clark County's "Initial Identification of Party Witnesses" that Inyo County joins in the identification of Eugene I. Smith, PhD, as a Party Witness for INY-SAFETY-003.

PARTY WITNESS

Name: Eugene I. Smith, Ph.D.

Affiliations: Geoscience Consultants and Department of Geoscience at the
University of Nevada, Las Vegas (UNLV)

Addresses: Geoscience Consultants
543 British Ct.
Henderson, NV 89014

Lilly Fong Geoscience Building (LFG) 104B
Department of Geoscience
University of Nevada, Las Vegas (UNLV)
4505 S. Maryland Parkway
Las Vegas, NV 89154-4010

Curriculum Vitae: Dr. Smith's *curriculum vitae* is attached hereto as Attachment 1

Contentions to be Addressed: INY-SAFETY-003 and INY-NEPA-006.²

General Statement of Subject Matter: Dr. Smith is expected to testify regarding the Department of Energy's failure to adequately analyze or consider the risks to the proposed repository associated with igneous activity.

All Relevant Publications Authored by the Witness in the Last Ten Years: Dr. Smith's relevant publications are listed in his *curriculum vitae*.

All Cases in which the Witness has Testified at Trial or by Deposition Within the

Last Four Years: None.

Respectfully submitted,

Dated: October 13, 2009

/s/ filed electronically
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ATTACHMENT 1

**CURRICULUM VITAE
EUGENE I. SMITH**

October 1, 2009

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and

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Educational Background:

<u>University</u>	<u>Degree</u>	<u>Year</u>
University of New Mexico	Ph.D.	1970
University of New Mexico	M.S.	1968
Wayne State University	B.S.	1965

Specialties: Volcanology, Igneous Petrology, Geochemistry, Tectonics, Planetary Geology

Professional Experience:

8/88 to present: Professor of Geology, UNLV
7/83-7/86: Chair, Department of Geoscience, UNLV
9/80 to 8/88: Associate Professor of Geology, UNLV
9/76-8/80: Associate Professor of Earth Science, University of Wisconsin-Parkside

- 9/72-9/76: Assistant Professor of Earth Science, University of Wisconsin-Parkside
- 9/70-6/72: Post-doctoral Research Associate to Professor W.E. Elston, Department of Geology, University of New Mexico
- 9/68-8/70: Graduate Research Assistant to Professor W.E. Elston, Department of Geology, University of New Mexico
- 8/68-8/80: Geologist WAE, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, AZ
- 6/66-7/68: Geological Field Assistant WAE, U.S. Geological Survey, Branch of Astrogeology, Flagstaff, AZ
- 6/64-9/64: Undergraduate Research Assistant to Professor A.J. Mozola, Department of Geology, Wayne State University, Detroit, MI

Professional Society Memberships:

American Association for the Advancement of Science
 American Geophysical Union
 Geological Society of America (Fellow)
 Geological Society of Nevada
 IAVCEI-International Association of Volcanology and Chemistry of the Earth's Interior
 Mineralogical Society of America
 Phi Kappa Phi
 Sigma Gamma Epsilon
 Sigma Xi

Grants and Contracts: * indicates current contracts or grants:

Studies of Yucca Mountain Nevada

- *Clark County Nevada contract to study basaltic volcanism about Yucca Mountain (July 2007-July 2010)
- *Inyo County California contract to study the geology of the Greenwater Range, Death Valley (January 2008-January 2010).
- *Nevada Agency for Nuclear Projects contract to study basaltic volcanism about Yucca Mountain (1986-1996, 2000-2010).
- Nevada Agency for Nuclear Projects and Clark County Nuclear Waste Office-contract to study basaltic volcanism about Yucca Mountain (July 2005-July 2007).

Bureau of Land Management Contracts

- *Bureau of Land Management contract to study the geology of the Sloan Canyon NCA (2005-2010).
- Bureau of Land Management contract to prepare a compilation of the geology of the Eldorado Valley, Nevada to evaluate gold in calcrete mining claims (2003).

U.S. Navy Geothermal Project Office Contracts

- U.S. Navy Geothermal Office Grant to study volcanic rocks in the Lava Mountains, (1998-1999).
- U.S. Navy Geothermal Office Grant *with Rodney Metcalf* to study volcanic rocks in the Lava Mountains, California and the Mt. Perkins Pluton, Arizona (1996-1998).

Lake Mead and River Mountain Projects

- *Lake Mead Intake #3 project; contract with CH2M Hill (2008-2010).
- *SCOP project; contract with Black and Veatch (2007-2010).
- State Route 710 California project; contract with CH2M Hill (2009).

Previous Grants of Note

- NSF Grant with J. Faulds and P. Gans to study the structural and geochemical development of the northern Colorado River extensional corridor (1991-1993).
- UNLV Research Council grant to support the study of Tertiary volcanic rocks in Clark County, Nevada (1983).
- NASA Grant NGR 50-009-001 for the study of volcanic fields in California, New Mexico and Wisconsin. The grant also funded the study of volcanic domes and craters on Mars, Mercury, Moon and Earth (6 years of funding)(1973-1979).
- Four University of Wisconsin research grants to support the study of Precambrian igneous rocks of south-central Wisconsin (1973-1977).

Awards:

- Recipient of the Harry Reid Nevada Star Award for Research (2006).
- Recipient of UNLV College of Sciences Distinguished Researcher Award (1999).
- National Defense Education Act (NDEA) Title IV Fellowship, 9/65-6/68

Current Research:

1. Geology of Quaternary-Pliocene basalts in the southern and central Great Basin and Colorado Plateau.
2. Volcanic hazard studies related to placing a nuclear waste repository at Yucca Mountain, Nevada.
3. Geology of basalts in the Yellowstone Plateau volcanic field, implications for the future development of the Yellowstone volcanic system.

4. Geochemical, structural and field study of the volcanic and plutonic rocks of the Lake Mead Volcanic Field.
5. The formation of intermediate composition igneous rocks in an extensional environment.

Editorial Responsibilities

- Associate editor of the Geological Society of America Bulletin 1999-2008
- Associate editor of the Journal of Geophysical Research (Geochemistry and Volcanology)- 1996-1999

Research Advisor for the following students:

University of New Mexico:

- Anthony Sanchez

University of Wisconsin-Parkside:

- James Grimes
- Bill Stupak
- Jill Hartnell
- Ray Spangers
- Cliff Brandon

UNLV:

- **Crow, H. Clay, III**, 1984, *Geochemistry of shonkinites, syenites, and granites associated with the Sulfide Queen carbonatite body, Mountain Pass, California [MS thesis]*: Las Vegas, University of Nevada, 56 p.
- **Myers, Ingrid A.**, 1984, *Geology and mineralization at the Cyclopic mine, Mohave County, Arizona [MS thesis]*: Las Vegas, University of Nevada, 64 p.
- **Mills, James G., Jr.**, 1985, *The geology and geochemistry of volcanic and plutonic rocks in the Hoover Dam 7 1/2 minute quadrangle, Clark County, Nevada and Mohave County, Arizona [MS thesis]*: Las Vegas, University of Nevada, 119 p.
- **Timm, John J.**, 1985, *Age and significance of paleozoic sedimentary rocks in the southern River Mountains, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 62 p.
- **Feuerbach, Daniel L.**, 1986, *Geology of the Wilson Ridge pluton : a mid-Miocene quartz monzonite intrusion in the northern Black Mountains, Mohave County, Arizona and Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 79 p.
- **Naumann, Terry R.**, 1987, *Geology of the central Boulder Canyon quadrangle, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 68 p.
- **Schmidt, Casey S.**, 1987, *A mid-Miocene caldera in the central McCullough Mountains, Clark County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 78 p.
- **Sewall, Angela J.**, 1988, *Structure and geochemistry of the upper plate of the Saddle Island detachment, Lake Mead, Nevada [MS thesis]*: Las Vegas, University of Nevada, 84 p.

- **Cole, Erin D.**, 1989, *Petrogenesis of late Cenozoic alkalic basalt near the eastern boundary of the Basin-And-Range: Upper Grand Wash trough, Arizona and Gold Butte, Nevada [MS thesis]*: Las Vegas, University of Nevada, 68 p.
- **Larsen, Lance L.**, 1989, *The origin of the Wilson Ridge pluton and its enclaves, northwestern Arizona: Implications for the generation of a calc-alkaline intermediate pluton in an extensional environment [MS thesis]*: Las Vegas, University of Nevada, 81 p.
- **Bridwell, Hayden L.**, 1991, *The Sloan Sag: A mid-Miocene volcanotectonic depression, north-central McCullough Mountains, southern Nevada [MS thesis]*: Las Vegas, University Of Nevada, 147 p.
- **Cascadden, Tracy E.**, 1991, *Style of volcanism and extensional tectonics in the eastern Basin and Range Province: northern Mojave Co., Arizona [MS thesis]*: Las Vegas, University Of Nevada, 156 p.
- **Morikawa, Shirley A.**, 1993, *The Geology of the Tuff of Bridge Spring: southern Nevada and northwestern Arizona [MS thesis]*: Las Vegas, University of Nevada, 165 pp.
- **Rash, Kelly B.**, 1995, *Geology and geochemistry of Tertiary volcanic rocks in the northern Reville and southern Pancake Ranges, Nye County, Nevada [MS thesis]*: Las Vegas, University of Nevada, 171 p.
- **Sánchez, Alexander**, 1995, *Mafic volcanism in the Colorado Plateau / Basin-and-Range transition zone, Hurricane, Utah [MS thesis]*: Las Vegas, University of Nevada, 92 p.
- **Boland, Kelly A.**, 1996, *The petrogenesis of andsites produced during regional extension: Examples from the northern McCullough Range, Nevada and Xitle volcano, Mexico [MS thesis]*: Las Vegas, University of Nevada, 127 p.
- **Dickson, Loretta D.**, 1997, *Volcanology and geochemistry of Pliocene and Quaternary basalts on Citadel Mountain, Lunar Crater volcanic field, Pancake Range, Nevada [MS thesis]*: Las Vegas, University of Nevada, 146 p. (Received the UNLV Alumni Association award for the most outstanding thesis for the academic year 1997-98)
- **Downing Reina**, 2000, *Imaging the Mantle in Southwestern, Utah Using Geochemistry, and Geographic Information Systems [MS thesis]*: Las Vegas, University of Nevada, 129 p.
- **Keenan, Deborah L.**, 2000, *A study of the Lava Mountians, San Bernadino County, California [MS thesis]*: Las Vegas, University of Nevada, 81p.
- **Herrington, Juliana**, 2000, *Significance of the prevolcanic conglomerate of the Colorado River extensional corridor, Nevada and Arizona [MS thesis]*: Las Vegas, University of Nevada, 83p.
- **Sanford, Aaron L.**, 2000, *Geologic history of the McCullough Pass caldera [MS thesis]*: Las Vegas, University of Nevada, 111p.

- **Elizabeth Stickney**, 2004, *Quaternary basaltic volcanism in the northern part of the Lunar Crater volcanic field, Nevada.*, 103 p.
- **Matt Faust**, 2005, *Petrogenesis and geochemistry of Pleistocene and Pliocene basalt flows of the Pine Valley Volcanic Field, Utah and their relationship to the tectonics of the Utah Transition Zone* [MS thesis]: University of Nevada), 116 p.
- **Denise Honn**, 2005, *Nested Calderas of the northern Kawich Range, central Nevada* [MS thesis]: University of Nevada), 92 p.
- **Denise Honn Ph.D.** *Linking a volcanic-plutonic system in the River Mountains and Wilson Ridge Pluton.* (work in progress).
- **Shara Leavitt**, 2006, *Volcanology and Petrogenesis of the Navajo Lake Volcanic Field, Utah* : [MS thesis]: University of Nevada, 94 p.
- **Kristeen Bennett**, 2006, *Petrogenesis of Pleistocene basalts in the Norris-Mammoth Corridor, Yellowstone National Park* : [MS thesis]: University of Nevada, 120 p.
- **Matt McKelvey**, 2007, *Geology of the southern Reveille Range, Nye County Nevada:* [M.S. thesis]: University of Nevada, 97 p.
- **Audrey Rager (Ph.D.)**, *Fragmentation of Martian regolith and the formation of pedestal craters* (work in progress).
- **Ashley Tibbetts**, *Geology of the Death Valley volcanic field* (work in progress).
- **Christi Emery**, *Volcanology of the southern Quinn Canyon Range, central Nevada* (work in progress).
- **Racheal Johnsen (Ph.D.)**, *Bimodal volcanism from the Miocene to Recent: a study of three volcanic fields* (work in progress).

Students who left UNLV before completing their degrees

- Jeff Nejedly
- Robert Yasek
- Tom Wickham
- Joe Blaylock
- Heather Putnam

Post-Doctoral Research Associates

- Jim Faulds (now an research scientist with the Nevada Bureau of Mines and Geology)
- Mark Martin (now a geologist at Shell Oil in Houston, Texas)
- Jim Mills (now an associate professor at DePauw University, Indiana)
- Tim Bradshaw (now a science advisor to the House of Lords, London)
- Gene Yogodzinski (now an assistant professor at the University of South Carolina)

Research Associates (*Professional Staff with M.S. degrees*)

- Dan Feuerbach
- Terry Naumann
- Alex Sánchez
- Shirley Morikowa
- Deb Keenan
- Denise Honn
- Racheal Johnsen

PUBLICATIONS:

A. Journal Articles in refereed journals, symposium volumes and maps:

1. Elston, W.E., Lambert, P.W. and Smith, E.I., 1968, Striated cones: wind abrasion features, not shatter cones: in Short, N.M., and French, B.M., eds., Shock Metamorphism of Natural Materials, Mono Book Corporation, Baltimore, p. 287- 290.
2. Mozola, A.J. and Smith, E.I., 1969, Glacial drift thickness map of Wayne County, Michigan: in Mozola, A.J., Geology for land and ground-water development in Wayne County, Michigan: Geological Survey of Michigan, Report of Investigation 3, 25 pp.
3. Elston, W.E., and Smith, E.I., 1970, Determination of flow direction of rhyolite ash-flow tuffs from fluidal textures: Geological Society of America Bulletin, v. 81, p. 3393- 3406.
4. Elston, W.E., Aldrich, M.J., Smith, E.I., and Rhodes, R.C., 1971, Non-random distribution of lunar craters: Journal of Geophysical Research, v. 76, no. 23, p. 5675- 5682.
5. Smith, E.I., 1971, Determination of the origin of small lunar and terrestrial craters by depth-diameter ratio: Journal of Geophysical Research, v. 76, no. 23, p. 5683- 5689.
6. Rhodes, R.C., and Smith, E.I., 1972, Directional fabric of ash-flow sheets in the northwest part of the Mogollon Plateau, New Mexico: Geological Society of America Bulletin, v. 83, p. 1863-1868.
7. Smith, E.I., and Rhodes, R.C., 1972, Flow direction of lava flows: Geological Society of America Bulletin, v. 83, p. 1869-1874.
8. Rhodes, R.C., and Smith, E.I., 1973, Geology and tectonic setting of the Mule Creek Caldera, New Mexico, USA: Bulletin Volcanologique, v. 36, no. 3, p. 401-411.
9. Smith, E.I., 1973, Mono Craters, California: A new interpretation of the eruptive sequence: Geological Society of America Bulletin, v. 84, p. 2685-2690.

10. Smith, E.I., 1973, Identification, distribution and significance of lunar volcanic domes: *The Moon*, v. 6, nos. 1/2, p. 3-31.
11. Smith, E.I., and Sanchez, A.G., 1973, Fresh lunar craters: morphology as a function of diameter, a possible criterion for crater origin: *Modern Geology*, v. 4, p. 51-59.
12. Elston, W.E., Damon, P.E., Coney, P.J., Rhodes, R.C., Smith, E.I., and Bickerman, M., 1973, Tertiary volcanic rocks, Mogollon Plateau, New Mexico and surrounding regions: K-Ar dates and patterns of eruption: *Geological Society of America Bulletin*, v. 84, p. 2259-2274.
13. Elston, W.E., and Smith, E.I., 1973, Mars, evidence for dynamic processes from Mariners 6 and 7: *Icarus*, v. 19, p. 180-194.
14. Smith, E.I., and Rhodes, R.C., 1974, The Squirrel Springs volcanotectonic depression, a buried cauldron in southwestern New Mexico: *Geological Society of America Bulletin*, v. 85, p. 1865-1868.
15. Smith, E.I., 1974, Rumker Hills, a lunar volcanic dome complex: *The Moon*, v. 10, no. 2, p. 175-182.
16. Smith, E.I., and Sanchez, A.G., 1975, Fresh lunar craters: morphology as a function of diameter, a possible criterion for crater origin, Reply: *Modern Geology*, v. 5, p. 175-176.
17. Smith, E.I., 1976, Comparison of the crater morphology-size relationship for Mars, Moon and Mercury: *Icarus*, v. 28, p. 543-550.
18. Rhodes, R.C., and Smith, E.I., 1976, Stratigraphy and structure of the northwestern rim of the Mogollon Plateau volcanic province, Catron County, New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 57-62.
19. Smith, E.I., 1976, Structure and morphology of the John Kerr Peak dome complex, southwestern New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 71-78.
20. Smith, E.I., Aldrich, M.J., Deal, E.G., and Rhodes, R.C., 1976, Fission track ages of Tertiary volcanic rocks, Mogollon Plateau, southwestern New Mexico: *New Mexico Geological Society Special Publication No. 5*, p. 117-118.
21. Smith, E.I., 1978, Introduction to the Precambrian rocks of south-central Wisconsin: *Geoscience Wisconsin*, v. 2, p. 1-17.
22. Smith, E.I., Paull, R.A., and Mudrey, M.G., 1978, Precambrian inliers in south-central Wisconsin: *Wisconsin Natural History and Geological Survey Field Trip Guide Book No. 2*, 89 pp.

23. Smith, E.I., 1978, Precambrian rhyolites and granites in south-central Wisconsin: field relations and geochemistry: Geological Society of America Bulletin, v. 89, p. 975- 980.
24. Smith, E.I., and Stupak, W.A., 1978, A Fortran IV program for the classification of volcanic rocks using the Irvine and Baragar classification: Computers and Geoscience, v. 4, p. 89-99.
25. Smith, E.I., and Hartnell, J.A., 1978, Crater size-shape profiles for the Moon and Mercury: The Moon and Planets, v. 19, p. 479-511.
26. Smith, E.I., Slagle, M.J., and Luzader, S., 1980, Impact cratering experiment for a course in lunar and planetary geology: Journal of Geological Education, v. 28, p. 204-209.
27. Bell, J., and Smith, E.I., 1980, Geological map of the Henderson quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology, Map 67.
28. Parolini, J.R., Smith, E.I., and Wilbanks, J.R., 1981, Fission track dating of gravity slide blocks in the Rainbow Gardens, Clark County, Nevada: Isochron/West, no. 30, p. 9-10.
29. Smith, E.I., 1982, Geology and geochemistry of the volcanic rocks in the River Mountains, Clark County, Nevada and comparisons with volcanic rocks in nearby areas: in Frost, E.G., and Martin, D.L. eds., Mesozoic-Cenozoic tectonic evolution of the Colorado River Region, California, Arizona and Nevada: San Diego, California, Cordilleran Publishers, p. 41-54.
30. Smith, E.I., 1984, Geochemistry and evolution of the early Proterozoic Post-Penokean rhyolites and granites, and related rocks of south-central Wisconsin: Geological Society of America Memoir 160, p. 113-128.
31. Smith, E.I., 1984, Geologic map of the Boulder City quadrangle, Nevada: Nevada Bureau of Mines and Geology, Map 81.
32. Choukroune, Pierre, and Smith, E.I., 1985, Detachment faulting and its relationship to older structural events on Saddle Island, River Mountains, Clark County, Nevada: Geology, v. 13, p. 421-424.
33. Myers, I.A., Smith, E.I., and Wyman, R.V., 1986, Control of gold mineralization at the Cyclopic Mine, Gold Basin District, Mohave County, Arizona: Economic Geology, v. 81, no. 6, p. 1553-1557.
34. Smith, E.I., 1986, Field Guide to the Geology of the eastern River Mountains and the Hoover Dam area, Clark County, Nevada: in Rowland, S.R., Field Guide to the Geology of Southern Nevada, prepared for the NAGT-FWS Meeting, Las Vegas, Oct. 3-5, 1986, p. 22-64.

35. Smith, E.I., Anderson, R.E., Bohannon, R.J. and Axen, Gary, 1987, Structure, volcanology, and sedimentology of mid-Tertiary rocks in the eastern Basin-and- Range Province, Southern Nevada: in Davis, G.H. and VandenDolder, Geologic Diversity of Arizona and its Margins: Excursions to Choice Areas: Arizona Bureau of Geology and Mineral Technology, Geological Survey Branch Special Paper 5, p. 383-397.
36. Weber, M.E., and Smith, E.I. 1987, Structural and geochemical constraints on the reassembly mid-Tertiary volcanoes in the Lake Mead area of southern Nevada: *Geology*, v. 15, p. 553-556.
37. Guth, Peter and Smith, E.I., 1987, Discussion of the paper by Ron and others, "Strike-slip faulting and block rotation in the Lake Mead Fault System", *Geology*, v. 15, p. 579-580.
38. Smith, E.I., Schmidt, C.S., and Mills, J.G., 1988, Mid-Tertiary volcanoes of the Lake Mead area of southern Nevada and Northwestern Arizona: in Weide, D.L., and Faber, M.L., This Extended Land, Geological Journeys in the southern Basin and Range, Geological Society of America, Cordilleran Section Field Trip Guidebook; UNLV Department of Geoscience, Special Publication No. 2, p. 107-122.
39. Faulds, J.E., Hillemeier, F.L., and Smith, E.I., 1988, Geometry and kinematics of a Miocene "Accommodation Zone" in the central Black and southern Eldorado Mountains, Arizona and Nevada: in Weide, D.L., and Faber, M.L., This Extended Land, Geological Journeys in the southern Basin and Range, Geological Society of America, Cordilleran Section Field Trip Guidebook; UNLV Department of Geoscience, Special Publication No. 2, p. 293-310.
40. Smith, E.I., Feuerbach, D.L., Naumann, T.R. and Faulds, J.E., 1990, The area of most recent volcanism about Yucca Mountain, Nevada: Implications for volcanic risk assessment: in Proceedings of the International Nuclear Waste Symposium, v. 1, American Nuclear Society and American Society of Civil Engineers, p. 90-97.
41. Smith, E.I., Feuerbach, D.L., Naumann, T.R. and Mills, J.E., 1990, Geochemistry and evolution of mid-Tertiary igneous rocks in the Lake Mead area of Nevada and Arizona: in Anderson, J.L., Cordilleran Magmatism: Geological Society of America Memoir 176, p. 169-194.
42. Larsen, L.L. and Smith, E.I., 1990, Mafic enclaves in the Wilson Ridge Pluton, northwestern Arizona: Implications for the generation of a calc-alkaline intermediate pluton in an extensional environment: *Journal of Geophysical Research*, v. 95, p. 17693-17716.
43. Duebendorfer, E.M., Sewall, A.J., and Smith, E.I., 1991, The Saddle Island Detachment fault, an evolving shear zone in the Lake Mead area of southern Nevada: in Wernicke, B., Mid-Tertiary extension at the latitude of Las Vegas: Geological Society of America Memoir 176, p. 77-97.

44. Duebendorfer, E.M. and Smith, E.I., 1991, Tertiary structure, magmatism and sedimentation in the Lake Mead region, southern Nevada, *in* Seedorf, E., ed., Tertiary geology and volcanic-hosted gold deposits of the southern Great Basin: Geological Society of Nevada Special Publication 13, p. 66-95.
45. Naumann, T.R., Smith, E.I., Shafiqullah, M., and Damon, P.E., 1991, New K-Ar ages for mafic to intermediate volcanic rocks in the Reveille Range, Nevada: *Isochron West*, p. 12-16.
46. Feuerbach, D.L., Smith, E.I., Shafiqullah, M., and Damon, P.E., 1991, New K-Ar dates for mafic late-Miocene to Pliocene volcanic rocks in the Lake Mead area, Arizona and Nevada: *Isochron West*, p. 17-20.
47. Ho, Chih-Hsiang, Smith, E.I., Feuerbach, D.L. and Naumann, T.R., 1991, Eruptive probability calculation for the Yucca Mountain site, USA: statistical estimation of recurrence rates: *Bulletin of Volcanology*, v. 53.
48. Metcalf, R.V., Smith, E.I., and Mills, J.G., 1993, Magma mixing and commingling in the northern Colorado River extensional corridor: constraints on the production of intermediate magmas: *in* Lahren, M.M., Trexler, J.H., and Spinosa, C., eds., *Crustal evolution of the Great Basin and Sierra Nevada: Cordilleran/Rocky Mountain Section*, Geological Society of America Guidebook, Department of Geological Sciences, University of Nevada, Reno, p. 35-56.
49. Smith, E.I., , 1993, 1.76 b.y. old granites and rhyolites in the conterminous United States: *in* Reed, J.C., Bickford, M.E., Houston, R.S., Link, P.K., Rankin, D.W., Sims, P.K., and Van Schmus, W.R., *Precambrian: Conterminous U.S.*, Geological Society of America, *Decade of North America Geology (DNAG)*, v. C-2, p. 64-66.
50. Feuerbach, D.L., Smith, E.I., Walker, J.D. and Tangeman, J.A., 1993, The role of the mantle during crustal extension: constraints from geochemistry of volcanic rocks in the Lake Mead area, Nevada and Arizona: *Geological Society of America Bulletin*, v 105, p. 1561-1575.
51. Rowell, A.J., Rees, M.N., Duebendorfer, E.M., Wallin, E.T., Van Schmus, W.R., and Smith, E.I., 1993, An active Neoproterozoic margin: evidence from the Skelton Glacier area, Transantarctic Mountains: *Journal of the Geological Society*, London, v. 150, p. 677-682.
52. Duebendorfer, E.M., Smith, E.I., and Faulds, J.E., 1994, Geologic setting of the area between Lake Mead Nevada, and Needles, California *in* Sherrod, D. and Nielson, J., eds., *Tertiary stratigraphy of highly extended terranes: U.S. Geological Survey Bulletin 2053*, p. 1-5.

53. Wallin, E.T., Duebendorfer, E.M. and Smith, E.I., 1994, Tertiary stratigraphy of the Lake Mead region in Sherrod, D. and Nielson, J., eds., Tertiary stratigraphy of highly extended terranes: U.S. Geological Survey Bulletin 2053, p. 33-35.
54. Bradshaw, T.K., and Smith, E.I., 1994, Polygenetic Quaternary volcanism in Crater Flat, Nevada: *Journal of Volcanology and Geothermal Research*, v. 63, p. 165-182
55. Purkey, B.W., Duebendorfer, E.M., Smith, E.I., Price, J.G., and Castor, S.B., 1994, Geologic tours in the Las Vegas area: Nevada Bureau of Mines and Geology, Special Publication 16, 156 pp.
56. Metcalf, R.V. and Smith, E.I., 1995, Introduction to special section: Magmatism and Extension: *Journal of Geophysical Research*, v. 100, no. B7, p. 10,249-10,253.
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Plus over 300 reports to the Nevada Nuclear Project Office, U.S. Navy's Geothermal Project Office and the Bureau of Land Management.

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARDS

In the Matter of)	Docket No.	63-001-HLW
)		
U.S. DEPARTMENT OF ENERGY)	ASLBP Nos.	09-876-HLW-CAB01
)		09-877-HLW-CAB02
(High-Level Waste Repository))		09-878-HLW-CAB03
)		09-892-HLW-CAB04

CERTIFICATE OF SERVICE

I hereby certify that copies of the “**INYO COUNTY, CALIFORNIA’S INITIAL IDENTIFICATION OF PARTY WITNESSES**” in the above-captioned proceeding have been served on the following persons this 13th day of October, 2009, by Electronic Information Exchange.

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