

RAS 5067

December 6, 2002

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USNRC

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION  
Before the Atomic Safety and Licensing Board

December 12, 2002 (2:28PM)

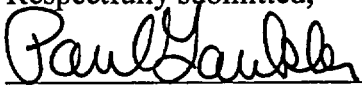
OFFICE OF SECRETARY  
RULEMAKINGS AND  
ADJUDICATIONS STAFF

In the Matter of )  
)  
PRIVATE FUEL STORAGE L.L.C. )  
)  
(Private Fuel Storage Facility) )

Docket No. 72-22-ISFSI

**PROPOSED JOINT CORRECTIONS TO THE TRANSCRIPT FOR  
THE EVIDENTIARY HEARING ON UNIFIED CONTENTION UTAH L/QQ**

Applicant Private Fuel Storage, L.L.C. ("Applicant" or "PFS"), the State of Utah and the Staff of the Nuclear Regulatory Commission jointly propose that the corrections in the attached table be made to the transcript of the evidentiary hearings on Unified Contention Utah L/QQ. The attached table lists the corrections that the parties have identified to date in their review of the transcript but, given the size of the transcript, the parties have not attempted to undertake a comprehensive identification and listing of every potential correction to the transcript.<sup>1</sup> In particular, the parties have not sought to identify and correct obvious typographical or spelling errors. The parties are aware of no contested issue of fact whose resolution turns on a proposed correction to the transcript.

Respectfully submitted,  


Jay E. Silberg  
Paul A. Gaukler  
Matias F. Travieso-Diaz  
Blake J. Nelson  
SHAW PITTMAN LLP  
2300 N Street, N.W.  
Washington, DC 20037  
(202) 663-8000  
Counsel for Private Fuel Storage L.L.C.

December 6, 2002

<sup>1</sup> The parties may be filing some additional proposed transcript corrections for Utah L/QQ next week.

Template = SECY-032

SECY-02

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of )  
 )  
PRIVATE FUEL STORAGE L.L.C. ) Docket No. 72-22  
 )  
(Private Fuel Storage Facility) ) ASLBP No. 97-732-02-ISFSI

**CERTIFICATE OF SERVICE**

I hereby certify that copies of the "Proposed Joint Corrections to the Transcript for the Evidentiary Hearing on Unified Contention Utah L/QQ" were served on the persons listed below (unless otherwise noted) by e-mail with conforming copies by U.S. mail, first class, postage prepaid, this 6<sup>th</sup> day of December, 2002.

Michael C. Farrar, Esq., Chairman  
Administrative Judge  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
e-mail: [MCF@nrc.gov](mailto:MCF@nrc.gov)

Dr. Jerry R. Kline  
Administrative Judge  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
e-mail: [JRK2@nrc.gov](mailto:JRK2@nrc.gov); [kjerry@erols.com](mailto:kjerry@erols.com)

Dr. Peter S. Lam  
Administrative Judge  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
e-mail: [PSL@nrc.gov](mailto:PSL@nrc.gov)

\*Office of Commission Appellate  
Adjudication  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Office of the Secretary  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
Attention: Rulemakings and Adjudications  
Staff  
e-mail: [hearingdocket@nrc.gov](mailto:hearingdocket@nrc.gov)  
(Original and two copies)

\* Adjudicatory File  
Atomic Safety and Licensing Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Catherine L. Marco, Esq.  
Sherwin E. Turk, Esq.  
Office of the General Counsel  
Mail Stop O-15 B18  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
e-mail: [pfscase@nrc.gov](mailto:pfscase@nrc.gov)

John Paul Kennedy, Sr., Esq.  
David W. Tufts, Esq.  
Confederated Tribes of the Goshute  
Reservation and David Pete  
Durham Jones & Pinegar  
111 East Broadway, Suite 900  
Salt Lake City, Utah 84105  
e-mail: [dtufts@djplaw.com](mailto:dtufts@djplaw.com)

Diane Curran, Esq.  
Harmon, Curran, Spielberg &  
Eisenberg, L.L.P.  
1726 M Street, N.W., Suite 600  
Washington, D.C. 20036  
e-mail: [dcurran@harmoncurran.com](mailto:dcurran@harmoncurran.com)

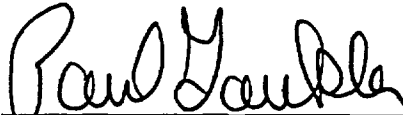
Paul EchoHawk, Esq.  
Larry EchoHawk, Esq.  
Mark EchoHawk, Esq.  
EchoHawk PLLC  
P.O. Box 6119  
Pocatello, ID 83205-6119  
e-mail: [paul@echohawk.com](mailto:paul@echohawk.com)

\* By U.S. mail only

Denise Chancellor, Esq.  
Assistant Attorney General  
Utah Attorney General's Office  
160 East 300 South, 5<sup>th</sup> Floor  
P.O. Box 140873  
Salt Lake City, Utah 84114-0873  
e-mail: [dchancellor@utah.gov](mailto:dchancellor@utah.gov)

Joro Walker, Esq.  
Land and Water Fund of the Rockies  
1473 South 1100 East  
Suite F  
Salt Lake City, UT 84105  
e-mail: [lawfund@inconnect.com](mailto:lawfund@inconnect.com)

Tim Vollmann, Esq.  
Skull Valley Band of Goshute Indians  
3301-R Coors Road, N.W.  
Suite 302  
Albuquerque, NM 87120  
e-mail: [tvollmann@hotmail.com](mailto:tvollmann@hotmail.com)

  
Paul A. Gaukler

**Proposed Corrections to Utah L/QQ Hearing Transcript  
PFS Evidentiary Hearing, April-June 2002  
Docket No. 72-22-ISFSI**

| <b>Page/Line</b> | <b>Delete</b>                 | <b>Replace deleted text with:</b>     |
|------------------|-------------------------------|---------------------------------------|
| 5539/3           | be, and                       | see, and                              |
| 5540/18          | enter design                  | under a design                        |
| 5540/22          | the statement referring       | what the statement is referring       |
| 5541/9           | all accompanying              | our company                           |
| 5542/15          | have been accepted as         | have accepted its                     |
| 5544/9           | of                            | or                                    |
| 5544/12          | without                       | without being                         |
| 5545/4           | a function complex variant    | a function that is a complex variable |
| 5545/8-9         | imaginary of that represent   | the imaginary part represents         |
| 5545/16          | variant                       | variable                              |
| 5546/3           | be                            | give                                  |
| 5546/11          | earlier                       | mentioned earlier                     |
| 5547/4           | matter                        | magnitude                             |
| 5547/12          | mathematical like             | mathematically                        |
| 5547/23          | Just                          | As                                    |
| 5548/15-16       | structural vibrate            | structure vibrates                    |
| 5548/23          | of                            |                                       |
| 5552/6           | an anchor                     | unanchored                            |
| 5563/14          | Freestanding for              | Freestanding                          |
| 5563/15          | containment structure support | a containment structure supported     |
| 5563/16          | rock slide. It's bass         | rock site. Its base                   |
| 5563/18          | containing                    | containment                           |

| Page/Line  | Delete                | Replace deleted text with: |
|------------|-----------------------|----------------------------|
| 5564/2     | bass                  | base                       |
| 5564/22    | elevation             | foundation                 |
| 5579/4     | problematic           | probabilistic              |
| 5579/9     | the median            | a median                   |
| 5580/10-11 | annual – the          | actual                     |
| 5591/6     | core                  | company                    |
| 5593/6     | only pad that         | on the pad, that's         |
| 5593/7     | pad                   | pad is                     |
| 5593/10    | strongly              | essentially                |
| 5594/22    | a straightforward for | straightforward for a      |
| 5596/20    | conceded              | considered                 |
| 5596/21    | history               | eccentricity               |
| 5615/8     | the cracked           | a cracked                  |
| 5621/1     | that                  | that are                   |
| 5627/5     | strictly              | strictly for               |
| 5627/24    | testimony             | settlement                 |
| 5627/25    | just entered          | is just under              |
| 5629/9     | ran                   | can say                    |
| 5631/15    | ICEC Sup              | CECSAP                     |
| 5631/17    | severity              | flexibility                |
| 5631/21    | ICEC sup              | CECSAP                     |
| 5632/22    | would be, then resist | would be then resisted     |
| 5633/16    | soil. That            | soil, that                 |
| 5633/25    | resists               | resistance                 |
| 5634/21    | one                   | when                       |
| 5641/17    | time and variant      | time invariant             |

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| 5642/12    | because the            | because of the                   |
| 5643/18    | ICEC Sup               | CECSAP                           |
| 5643/20    | expressive             | an express                       |
| 5643/20    | validation. But the    | validation, the                  |
| 5644/5     | Sup                    | SAP                              |
| 5644/11    | interdynamic condition | results under dynamic conditions |
| 5650/5     | pattern                | pad                              |
| 5662/7     | there's more           | the amount of                    |
| 5662/8     | motion. I              | motion, I                        |
| 5662/9     | very                   | it is                            |
| 5671/11-12 | they resistant to      | they resist the                  |
| 5677/9     | waves?                 | layers?                          |
| 5679/1     | and                    |                                  |
| 5684/8     | rectangular            | rectangle                        |
| 5684/8     | convert square         | square                           |
| 5684/15    | Guchi                  | Iguchi                           |
| 5688/7     | Guchi                  | Iguchi                           |
| 5692/5     | Guchi                  | Iguchi                           |
| 5694/21    | patent                 | pad                              |
| 5694/23    | floating               | loading                          |
| 5694/24    | patent                 | pad                              |
| 5696/1     | patent                 | pad                              |
| 5696/4     | irrespect              | irrespective                     |
| 5698/13    | a lot depend           | that a lot depends               |
| 5711/11    | waves                  | layers                           |
| 5713/1     | though                 |                                  |

| Page/Line | Delete                        | Replace deleted text with:      |
|-----------|-------------------------------|---------------------------------|
| 5713/14   | DeLong                        | Wong                            |
| 5724/7    | instance                      | incidence                       |
| 5728/25   | support                       | supported                       |
| 5773/8    | does not                      | it does not                     |
| 5815/14   | those                         | those,                          |
| 5816/3    | this                          |                                 |
| 5817/3    | JUDGE FARRAR                  | DR. STAMATAKOS                  |
| 5817/4    | MR. STAMATAKOS                | JUDGE FARRAR                    |
| 5817/7-8  | decision at                   | decision. At                    |
| 5822/21   | for                           |                                 |
| 5823/24   | then                          | are                             |
| 5827/23   | further                       | farther                         |
| 5830/13   | combines probabilistically    | combines, probabilistically,    |
| 5839/7-8  | incorporate probabilistically | incorporate, probabilistically, |
| 5843/14   | has explicit                  | has an explicit                 |
| 5850/22   | been moved to                 | removed the                     |
| 5874/19   | back                          | impact                          |
| 5881/4    | it derives                    | is derived                      |
| 5887/21   | consistent                    | inconsistent                    |
| 5904/10   | So                            | To                              |
| 5922/12   | fix                           | racks                           |
| 5923/14   | voracity                      | veracity                        |
| 5951/6    | tasks                         | casks                           |
| 5968/4    | external                      | externally                      |
| 6003/7    | references                    | is                              |
| 6006/16   | thought                       | not                             |
| 6020/5    | loads                         |                                 |
| 6054/5    | natural                       | actual                          |

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|-----------------------------|------------------------|----------------------------|
| 6054/6                      | summary                | shake                      |
| 6078/21                     | tilt                   | tip                        |
| 6082/6                      | as                     | has                        |
| 6121/16                     | degree                 | agree                      |
| 6126/21                     | would                  | wouldn't                   |
| 6147/4                      | map                    | mat                        |
| 6155/17                     | consumed               | conservative               |
| 6200/14                     | Numark                 | Newmark                    |
| 6200/15                     | Rosenblue              | Rosenblueth                |
| 6205/4                      | fee                    | friction                   |
| 6209/13                     | Silted clay, clay silt | Silty clay, clayey silt    |
| 6213/10                     | litter                 | layer                      |
| 6224/22                     | Stoeten                | Stoughton                  |
| 6291/12                     | Wickers                | Wissa                      |
| 6322/9                      | slide                  | sliding                    |
| 6360/25                     | ductal                 | ductile                    |
| 6363/6, 7, 9, 12,<br>14, 18 | Plasson's              | Poisson's                  |
| 6363/23                     | proof                  | roof                       |
| 6365/6                      | raptor                 | reactor                    |
| 6366/24                     | pie                    | pi                         |
| 6369/23                     | listed                 | lifted                     |
| 6371/25                     | peak                   | key                        |
| 6391/10                     | proved                 | approved                   |
| 6437/20                     | entrance               | interest                   |
| 6437/23                     | be, with               | be of                      |
| 6452/4                      | closely                | close to                   |
| 6497/14                     | for no vertical        | of non-vertically          |
| 6497/24                     | number of              | non-vertically             |



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|------------------|--------------------------------------|--|
| 6501/1           | citation                             | excitation                               |
| 6501/23          | the sine                             | the design                               |
| 6502/6-7         | the formation                        | deformation                              |
| 6503/17          | .125                                 | 0.125                                    |
| 6504/5           | .0125                                | 0.125                                    |
| 6506/9           | markings                             | margins                                  |
| 6508/8           | that history                         | time histories                           |
| 6510/15          | no more or revised                   | normal or reverse                        |
| 6512/8           | there were                           | then we                                  |
| 6512/9           | wrong                                | run                                      |
| 6512/9           | good                                 | the                                      |
| 6520/4           | southwest                            | Southwest                                |
| 6520/10          | intersection                         | interaction                              |
| 6520/11          | mobility                             | modeling                                 |
| 6520/20          | pad, cask                            | pad-cask                                 |
| 6522/1           | Section 2164 of the Safety Violation | Section 2.1.6.4 of the Safety Evaluation |
| 6533/8           | Mox River                            | MOX                                      |
| 6556/17, 22      | CNWRI                                | CNWRA                                    |
| 6556/22-23       | in analysis,                         | the NRC's,                               |
| 6557/8           | CNWRI                                | CNWRA                                    |
| 6557/14          | CNWRW                                | CNWRA                                    |
| 6559/20          | sine                                 | site                                     |
| 6564/3           | essentially                          | eventually                               |
| 6565/13          | business                             | bases                                    |
| 6569/2           | on-site                              | on site                                  |
| 6578/12          | 2164                                 | 2.1.6.4                                  |
| 6580/19          | Seismic                              | Stability                                |
| 6593/21          | overtonging                          | overturning                              |

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|------------------|----------------|-----------------------------------|
| 6595/13          | regulation     | regulatory                        |
| 6595/24          | statistical    | pseudostatic                      |
| 6596/20          | acumen         | argument                          |
| 6597/1, 3        | of order       | of an order                       |
| 6597/7           | analyses       | NRC                               |
| 6597/10          | divided        | provided                          |
| 6597/10          | wet            | earthquake                        |
| 6597/15          | light          | large                             |
| 6597/15-16       | and not extend | are not sustained                 |
| 6597/19          | more           | small                             |
| 6599/3           | raising        | racing                            |
| 6601/13          | There          | They                              |
| 6623/17          | horizontal     |                                   |
| 6642/2           | MR. POMERENING | DR. OFOEGBU                       |
| 6643/12          | leads          | needs                             |
| 6643/22          | I expected it  | the materials are expected        |
| 6645/12          | the            | a                                 |
| 6650/3           | their          | there are                         |
| 6670/11          | issue in       | issuing of                        |
| 6675/19          | soft grade     | subgrade                          |
| 6675/19          | not            |                                   |
| 6678/1           | difference of  | differential                      |
| 6679/24          | as true        | through                           |
| 6721/7           | or             | on                                |
| 6727/8           | fiscal         | physical                          |
| 6735/4           | analyses       | NRC                               |
| 6737/21          | or             | on                                |
| 6742/20          | where          | were                              |

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| 6783/14         | move   | remove                     |
| 6784/13         | of   | or                         |
| 6786/23         | U2   | Mu 2                       |
| 6787/4          | U2   | Mu 2                       |
| 6790/3          | ways   | waves                      |
| 6807/12         | indicated                                      | indicate                   |
| 6966/20         | Dr. Hardland's                                 | in Dr. Bartlett's          |
| 7063/22-23      | people are going to – not going to be – again, |                            |
| 7094/12         | term   | return                     |
| 7109/13         | established                                    | failed                     |
| 7169/2, 4       | Humble   | Humbolt                    |
| 7175/3, 5, 20   | end  | N                          |
| 7182/16         | end  | N                          |
| 7219/4          | Tseng  | Singh                      |
| 7225/13         | mute   | Mu                         |
| 7229/25         | .2   | Point 2                    |
| 7230/16         | .2   | Point 2                    |
| 7231/11, 12     | sine   | side                       |
| 7321/21         | MS. CHANCELLOR:                                | MR. TRAVIESO-DIAZ:         |
| 7325/15         | aren't connected                               | are interconnected         |
| 7352/20, 23     | traction                                       | interaction                |
| 7353/2          | traction                                       | interaction                |
| 7377/24         | years  | g's                        |
| 7383/23         | Osgood   | Hosgri                     |
| 7383/24         | Salt Lake                                      | Diablo Canyon              |
| 7451/1, 2       | asks   | cases                      |
| 7460/1; 7463/13 | defamation                                     | deformation                |
| 7466/8, 20, 25  | ICC  | ICEC                       |

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|-------------|--------------------------|----------------------------|
| 7466/20-21  | calibrations wrong       | calibration runs           |
| 7467/3      | ICC                      | ICEC                       |
| 7469/9      | information              | deformation                |
| 7511/9      | dose panel               | design basis               |
| 7515/14     | modes or                 | modes of                   |
| 7520/23     | best-case                | base case                  |
| 7535/9, 11  | respond                  | correspond                 |
| 7543/16     | dumping                  | damping                    |
| 7568/13     | use                      | user manual                |
| 7583/11, 12 | wrong                    | run                        |
| 7583/13     | problem                  | program                    |
| 7587/22     | drawings                 | runs                       |
| 7609/7      | barometric               | parametric                 |
| 7633/22     | RCC                      | ICEC                       |
| 7638/14     | represented in the rapid | representation of the pad  |
| 7737/21     | Housby                   | Hosgri                     |
| 7741/8      | Housby                   | Hosgri                     |
| 7742/18     | Housby                   | Hosgri                     |
| 7743/7      | Housby                   | Hosgri                     |
| 7867/2      | 202                      | 2002                       |
| 7869/18     | curves                   | occurs                     |
| 7882/10     | exceeding                | not exceeding              |
| 7890/4      | elsewhere,               |                            |
| 7893/17     | us                       | using                      |
| 7905/14     | 1.5 g                    | 1.5                        |
| 7914/15     | if.                      | is.                        |
| 7926/4      | R sub R                  | if R sub R                 |
| 7926/24     | an anchor                | unanchored                 |

| Page/Line       | Delete                  | Replace deleted text with: |
|-----------------|-------------------------|----------------------------|
| 7927/1          | diamond                 | diameter                   |
| 7933/7          | other                   | the                        |
| 7941/1          | conflict                | comfort                    |
| 7943/12, 18, 19 | Osifies                 | ISFSIs                     |
| 7955/22         | act,                    | at                         |
| 7956/14         | MS. NAKAHARA            | DR. CORNELL                |
| 7986/23         | seep                    | seen                       |
| 8001/3, 24      | problemistic            | probabilistic              |
| 8001/11         | Reg Guide 1165          | Reg Guide 1.165            |
| 8004/14-15      | Reg Guide 1174          | Reg Guide 1.174            |
| 8007/20         | statute                 | state                      |
| 8017/19         | Doe                     | DOE                        |
| 8027/2          | struck                  | strut                      |
| 8028/5          | is meant                | mean                       |
| 8037/15-16      | the principal scientist | a Principal Scientist      |
| 8038/4          | been                    |                            |
| 8042/15         | scales                  | skills                     |
| 8045/7, 16, 21  | KHAN                    | STAMATAKOS                 |
| 8052/14         | in the of               | of the                     |
| 8055/11         | .8.                     | 9.8.                       |
| 8068/25         | layers                  | graded                     |
| 8072/6          | research                | Research                   |
| 8089/23         | stated                  | states                     |
| 8090/4          | initiate stress         | initiate slip              |
| 8090/5          | stress                  | slip                       |
| 8090/12         | where                   | with                       |
| 8090/24         | proposal.               | propose.                   |
| 8094/23         | pervasions              | perturbations              |

| Page/Line   | Delete                | Replace deleted text with: |
|-------------|-----------------------|----------------------------|
| 8097/1      | end                   |                            |
| 8097/23     | in                    | or                         |
| 8098/13, 25 | problemistic          | probabilistic              |
| 8106/25     | PSHA?                 | PSHA.                      |
| 8107/2      | methodology           | methodology,               |
| 8108/22     | A                     | 8                          |
| 8112/18     | in                    | at                         |
| 8113/7      | is                    | was                        |
| 8115/13     | problemistic          | probabilistic              |
| 8115/14     | by I believe          | by, I believe,             |
| 8121/5      | three distress        | 3-D stress                 |
| 8132/11     | for                   | before                     |
| 8135/3      | facility for          | facility, or               |
| 8180/2      | document              | document,                  |
| 8188/25     | labialized            | rubblized                  |
| 8194/15     | distance, the         | distance, how far the      |
| 8194/18     | are,                  | and                        |
| 8196/16     | east                  | East                       |
| 8200/2      | lake quaternary       | late Quaternary            |
| 82003/13    | quaternary            | Quaternary                 |
| 8203/5      | believe               | believe,                   |
| 8208/10     | on earthquake spectra | in Earthquake Spectra      |
| 8214/22     | Earthquake spectra    | Earthquake Spectra         |
| 8220/14     | Magnitude             | Magnitude and              |
| 8224/15     | is that               | that                       |
| 8225/13     | sides of              | sides, to                  |
| 8235/21     | DR. STAMATAKOS:       |                            |
| 8237/24     | proponent             | component                  |

| <b>Page/Line</b> | <b>Delete</b>                                   | <b>Replace deleted text with:</b>                    |
|------------------|---|--|
| 8244/8-9         | ground, what under line that is meant to go and | ground motion. What underlies that is important. And |
| 8244/10          | part of the expression smell test               | pardon the expression, smell test                    |
| 8244/16          | whereas   | where  |
| 8245/8           | nap   | map  |
| 8250/11-12       | hazards result only                             | hazard results all the way                           |
| 8253/16          | society   | philosophy   |
| 8261/10          | my  |  |
| 8261/11          | modeling that                                   | modeling,  |
| 8261/12          | using a member,                                 | using,   |
| 8261/13          | in mass   | en-masse   |
| 8261/19          | quaternary                                      | Quaternary   |
| 8262/8           | cold structure                                  | structured   |
| 8262/13          | number  | number,  |
| 8264/7           | volume per se                                   | volume, per se,                                      |
| 8276/7           | consideration in                                | risk consideration if                                |
| 8276/18          | for   | or   |
| 8294/1           | 1.165   | 1.165,   |
| 8304/12          | problems and approaches                         | probabilistic assessments                            |
| 8328/22          | feet  | years  |
| 8342/17, 22      | ISFSI   | Besse  |
| 8973/20          | distance  | difference   |
| 8979/8           | Nuttall   | steel  |
| 8991/23          | high storms                                     | HI-STORMs  |
| 9002/18          | complements                                     | components   |
| 9060/19          | ships   | shifts   |
| 9115/17          | PFSF  | PFS  |
| 9118/10          | probability                                     | probabilistic  |

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|--------------|-------------------|----------------------------|
| 9120/12-13   | inherence or      | inherent                   |
| 9162/11      | exception         | exemption                  |
| 9176/2       | thought           | through                    |
| 9178/1       | plan              | plant                      |
| 9208/7       | codery            | coterie                    |
| 9208/8       | cognoscente       | cognoscenti                |
| 9250/9       | 19                | '99                        |
| 9381/11      | Bumps             | Pumps                      |
| 9423/12      | 100               | 1.100                      |
| 9745/12      | anyplace          | any place                  |
| 9750/23      | could             | could not                  |
| 9756/22      | belied            | belie                      |
| 9780/24      | Judge Farrar      | Mr. Soper                  |
| 9799/4       | you               | he                         |
| 9802/22      | matter            | model                      |
| 9887/2       | it                |                            |
| 9895/5-6     | or fine idea      |                            |
| 9896/19      | exception         | exemption                  |
| 9904/25      | explain           | explained                  |
| 9906/11      | exceeded this     | exhibited                  |
| 9906/14      | lacked            | had large                  |
| 9907/13      | more recent rates | of more recent dates       |
| 9920/21      | had               | has                        |
| 9921/9       | changes           | changed                    |
| 10003/8      | Robert            | Robin                      |
| 10071/5      | mock-up           | markup                     |
| 10108/16, 21 | INEL              | INEEL                      |
| 10114/3, 5   | default           | fault                      |



| Page/Line    | Delete                         | Replace deleted text with:         |
|--------------|--------------------------------|------------------------------------|
| 10131/17     | PSH                            | PSHA                               |
| 10169/18     | licensing                      | relicensing                        |
| 10401/23     | anchor casks as being storage? | unanchored casks for fuel storage? |
| 10519/3      | interaction                    | excitation                         |
| 10535/15     | 4.61 g                         | .461 g                             |
| 10549/4      | 86 B                           | 86C                                |
| 10567/2      | increase                       |                                    |
| 10571/2      | Holtec's                       | Holtec                             |
| 10578/6      | 27                             | 2.7                                |
| 10578/7      | 29                             | 2.9                                |
| 10579/20     | to                             | of                                 |
| 10678/21     | remediation                    | radiation                          |
| 10679/10     | remediation                    | radiation                          |
| 10684/7      | pad                            | path                               |
| 10688/5      | Many                           | Maybe                              |
| 10701/13     | DR. SOLER                      | Dr. Ostadan                        |
| 10713/13, 14 | wave                           | weight                             |
| 10721/23     | match                          | maximize                           |
| 10723/2      | you                            | he                                 |
| 10732/7      | 1,2                            | 0.2                                |
| 10733/21     | they                           | the                                |
| 10734/9-10   | zero compression in the wave   | precession in the base             |
| 10745/9      | DR. SOLER                      | Dr. Tseng                          |
| 10749/9      | transferred to                 | transformed due to                 |
| 10751/9      | Singh                          | Tseng                              |
| 10753/21     | DR. SOLER                      | Dr. Tseng                          |
| 10755/5      | one and one eighths            | one eighth                         |
| 10764/17     | Singh's                        | Tseng's                            |

| Page/Line   | Delete  | Replace deleted text with:  |
|-------------|---|---|
| 10766/8     | one   | free  |
| 10793/10    | there is  | if there is   |
| 10796/17    | bases   | cases   |
| 10834/14    | Dr.   | Mr.   |
| 10834/14-15 | [Remove from the bound hearing transcript the deposition transcripts of Mr. Trudeau and Dr. Wissa]  | [Insert into the bound hearing transcript the <i>Joint Testimony of Paul J. Trudeau and Anwar E.Z. Wissa on Section C of Unified Contention Utah/00</i> ] |
| 10837/2, 7  | III   | GGG   |
| 10870/9     | compressor  | compressive   |
| 10876/22    | pattern placement   | pad emplacement   |
| 10881/3     | Well, now   | We'll know  |
| 10885/11-25 | <p>But that assumption is based on the assumption that there would be quality assurance people on-site, that there'd be sufficient lab testing. That's based on your – on the quality of work that you would expect from yourself. Right? If some other contractor – if some other person did this, such as AGECE, you don't know what they would require.</p> <p>DR. WISSA: They're not the design engineers. They're a testing lab, so that isn't it up to them to make a decision on this.</p> <p>MS. CHANCELLOR: You're correct.</p> <p>DR. WISSA: The person who makes the decision is the owner. And usually, I don't know about with NRC, but in other fields where we have to</p> | [Duplicative: see 10886, lines 23-25; 10887, lines 1-9]   |
| 10886/1-22  | get permitting, it becomes a requirement of the permit  | [Duplicative: see 10887, lines 9-25; 10888, lines 1-6]  |

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|-----------|--|--|
|           | <p>condition, is to have this quality assurance program, and quality control program as part of the conditions of a permit, so I would assume that in this case you would have conditions requiring these – this type of testing program.</p> <p>MS. CHANCELLOR: You've used the term "owner". Who are you referring to?</p> <p>DR. WISSA: Well, the owner, I suppose, is the applicant in this case.</p> <p>MS. CHANCELLOR:<br/>Private Fuel Storage.</p> <p>DR. WISSA: Right.</p> <p>MS. CHANCELLOR: And are you aware of any NRC requirements with respect to PFS' proposed Soil Cement Program, not just testing, testing through construction. Are you aware of any NRC requirements?</p> <p>DR. WISSA: I'm not familiar with any of the requirements of NRC.</p> <p>MS. CHANCELLOR: Now in terms of how you would actually prepare the site, would the first thing you'd do would be to excavate the surficial layer. Is that correct?</p> |  |
| 10887/3   | don't what   | don't know what  |
| 10887/6   | testing that   | a testing lab  |
| 10887/7   |  | <p>[Missing text: After "... decision on this." Insert as follows (see 10885, line 22):</p> <p>"Ms. CHANCELLOR: You're</p> |

| Page/Line   | Delete                               | Replace deleted text with: |
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|             |                                      | correct.<br>DR. WISSA: "]  |
| 10887/10    | firmitiy                             | permitting                 |
| 10887/10    | firmitie                             | permit                     |
| 10900/8     | source                               | soil                       |
| 10901/6     | essay                                | ESSOW                      |
| 10911/18    | less                                 | lifts                      |
| 10911/25    | in vision                            | envisioned                 |
| 10920/15    | enforced                             | reinforced                 |
| 10927/22    | cast                                 | cask                       |
| 10828/19    | lead                                 | meet                       |
| 10930/11    | Ostadon                              | Ostadan                    |
| 10946/13    | impressive                           | compressive                |
| 10980/13    | is ASFЕ                              |                            |
| 10989/6     | silk                                 | silt                       |
| 11002/5     | submit                               | cement                     |
| 11002/6     | submit                               | cement                     |
| 11004/1     | confined                             | unconfined                 |
| 11004/23    | the similar                          | dissimilar                 |
| 11005/5     | the similar                          | dissimilar                 |
| 11006/18    | glass                                | class                      |
| 11006/23    | discovery                            | the PFS                    |
| 11007/17-18 | post-related (phonetic)              | postulated                 |
| 11009/11    | earlier                              | aeolian                    |
| 11010/17    | mandatory (phonetic)<br>distribution | minor redistribution       |
| 11012/7     | relative wall (phonetic)             | water table                |
| 11016/20    | we                                   |                            |
| 11018/4     | people have                          | people that have           |

| Page/Line     | Delete                  | Replace deleted text with: |
|---------------|-------------------------|----------------------------|
| 11018/5       | analysis                | NRC                        |
| 11018/7       | testing                 | applications               |
| 11019/6       | made                    | would have made            |
| 11019/13      | analysis                | NRC                        |
| 11024/4, 5, 7 | parts                   | pads                       |
| 11024/15      | status                  | static                     |
| 11024/18      | study parts             | storage pads               |
| 11025/20      | Lambridge (phonetic)    | Lambrechts                 |
| 11025/22      | panel                   | channel                    |
| 11027/9       | part                    | pad                        |
| 11027/25      | clay in                 | clayey                     |
| 11030/18      | the point               | a point                    |
| 11088/4       | very fast               | verify                     |
| 11088/22      | prode (PH) and          | procedure that             |
| 11088/23      | (Telephone ringing.)    | was appropriate            |
| 11093/16      | problem                 | program                    |
| 11125/12      | sediment                | settlement                 |
| 11134/11      | where                   | whether                    |
| 11134/12      | from                    | formed in                  |
| 11134/13      | through the             | treated                    |
| 11154/5       | , it's concern          | is concerned               |
| 11158/11-12   | some of the             | thermal                    |
| 11159/17      | consistent              | inconsistent               |
| 11161/4       | Ostedon                 | Ostadan                    |
| 11162/24      | remodeling              | remolding                  |
| 11163/4       | remodeling of the place | remolding of the clay      |
| 11167/1       | whole                   | soil                       |
| 11182/20      | cost                    | cause                      |

| Page/Line   | Delete  | Replace deleted text with:  |
|-------------|---|---|
| 11220/8     | pigment   | placement   |
| 11232/18-19 | (Insert prefiled testimony of Dr. Wissa and Mr. Trudeau.) | (Insert <i>Rebuttal Testimony of Paul J. Trudeau and Anwar E.Z. Wissa to Direct Testimony of State of Utah Witnesses Dr. Steven F. Bartlett and James K. Mitchell on Section C of Unified Contention Utah L/QQ.</i> ) |
| 11244/5     | cells   | soils   |
| 11275/22-23 | (Insert prefiled testimony of Peter Trudeau here.)        | (Insert <i>Rebuttal Testimony of Paul J. Trudeau on Section D of Unified Contention Utah L/QQ here.</i> )   |
| 11306/1-2   | (Insert prefiled testimony of Dr. Bartlett)               | (Insert <i>State of Utah Partial Surrubuttal [sic] Testimony of Dr. Steven F. Bartlett to Rebutal [sic] Testimony of Paul J. Trudeau on Unified Contention Utah L/QQ (Dynamic Analyses.)</i> )                        |
| 11323/19    | egress  | ingress   |
| 11327/23    | A Correct. Let's  | A Correct.<br>Q Let's   |
| 11342/12    | MR. TRAVIESO-DIAZ   | MR. TURK  |
| 11504/15    | no adequately protect                                     | not adequately predict  |
| 11574/10    | Abuqus  | Abaqus  |
| 11575/21    | the outdated PFS design's attempt                         | tested PFS's design intent  |
|             |   |   |
| 11576/7     | displacement shocks                                       | displacements   |
| 11618/5     | caskability   | cask stability  |

| Page/Line    | Delete   | Replace deleted text with:             |
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| 11724/5-6    | (Insert pre-filed testimony of Mr. Peter Trudeau and Dr. Anwar Wissa.) <sup>1</sup> [Also remove from the bound hearing transcript the <i>Rebuttal Testimony of Paul J. Trudeau to Testimony of State of Utah Witness Dr. Stephen [sic] F. Bartlett on Section C of Unified Contention Utah L/QQ (Soils Characterization).</i> ] |  |
| 11782/24     | EPRI   | ISFSI                                  |
| 11783/8      | EPRI   | ISFSI                                  |
| 11783/10     | ESPC   | ISFSI                                  |
| 11787/4      | test   | take                                   |
| 11787/6      | variation, or  | variation of                           |
| 11789/3      | is in  | is not in                              |
| 11792/19-20  | analysis proved the static   | analysis, through pseudostatic         |
| 11805/16     | analysis (UDTA)  | NRC staff calls "reasonable assurance" |
| 11810/18     | rock. The penetrometer is a rock   | rod. The penetrometer is a rod         |
| 11812/12     | (UDTA)   | stratigraphic                          |
| 11813/12     | computation  | cone penetration                       |
| 11815/21     | lies   | that lies                              |
| 11817/23     | explicitly (UDTA)  | by explicit correlation                |
| 11831/5      | unusual  | useful                                 |
| 11831/7      | lacostering  | lacustrine                             |
| 11857/22, 23 | not  | naught                                 |

<sup>1</sup> There is no need to insert the testimony of Mr. Trudeau and Dr. Wissa into the hearing transcript at this point, since it should be bound into the record when first discussed. See Tr. 10834. As noted, the rebuttal testimony of Mr. Trudeau bound into the transcript at this point should be removed.

| Page/Line    | Delete  | Replace deleted text with:  |
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| 11868/23     | institute   | in situ   |
| 11879/15     | competent term (phonetic) at the                    | cone penetration tip  |
| 11891/15     | myself  | yourself  |
| 11891/16     | by  | in the  |
| 11892/8      | some  | from  |
| 11931/5      | Peter   | Paul  |
| 11934/5      | pore  | bore  |
| 11948/25     | And   | An  |
| 11954/20     | (Insert pre-filed testimony of Mr. Peter Trudeau.)  | <i>(Insert Rebuttal Testimony of Paul J. Trudeau to Testimony of State of Utah Witness Dr. Stephen [sic] F. Bartlett on Section of Unified Contention Utah L/QQ (soils characterization))</i> |
| 11982/23     | (Insert prefiled testimony of Dr. Steven Bartlett.) | <i>(Insert Surrebuttal of Dr. Steven Bartlett to PFS Witness Paul Trudeau's Rebuttal Testimony on Section C of Unified Contention Utah L/QQ)</i>  |
| 11983/17     | it's  | its   |
| 11993/12     | change  | chance  |
| 12016/7      | for   |   |
| 12016/9, 10  | ten   | thin  |
| 12019/20     | axial test  | axial extension test  |
| 12023/1      | ten   | thin  |
| 12028/1      | PSE compression                                     | PSE is not tri-axial compression  |
| 12028/1-2    | that approximately that is – that can be            | that, approximately, tri-axial compression is similar to  |
| 12029/7      | K not   | K <sub>o</sub>  |
| 12031/19     | analysis  | NRC   |
| 12063/18, 24 | 40,000 MDW over MTU                                 | 40,000 MWD/MTU  |



| <b>Page/Line</b>  | <b>Delete</b>           | <b>Replace deleted text with:</b> |
|-------------------|-------------------------|-----------------------------------|
| 12066/25          | 10 CRF                  | 10 CFR                            |
| 12071/5           | a 2000 hour.            | a 2000 hour year.                 |
| 12075/2, 8, 9, 10 | in tact                 | intact                            |
| 12076/3           | in tact                 | intact                            |
| 12084/7           | resident                | residence                         |
| 12096/19          | is a site-specific      | is site-specific                  |
| 12098/12          | be some affect, but not | be some effect, but               |
| 12102/24          | ICEC                    | casks                             |
| 12111/5           | your basis              | the basis                         |
| 12124/25          | light                   | like                              |
| 12125/9           | done                    |                                   |
| 12126/20          | gets                    | get                               |
| 12137/16          | she                     | he                                |
| 12138/3           | to                      |                                   |
| 12138/4           | an                      | a                                 |
| 12138/22          | assemblage              | assemblies                        |
| 12139/1           | cask                    | casks                             |
| 12139/1           | face                    | phase                             |
| 12139/17          | That                    | The                               |
| 12141/21          | that                    |                                   |
| 12145/12          | larger than             |                                   |
| 12146/13          | and                     | in                                |
| 12146/18          | the same.               | stay the same.                    |
| 12148/18          | perimeter that          | perimeter of that                 |
| 12149/1           | you really              | you are really                    |
| 12149/18          | of those                | dose                              |
| 12149/20          | Eventually              | Essentially                       |
| 12152/22          | that                    |                                   |

| Page/Line     | Delete                   | Replace deleted text with:    |
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| 12152/23      | aerobatic(PH)            | adiabatic                     |
| 12155/22      | region                   | reason                        |
| 12185/15      | 1                        | 11                            |
| 12187/11      | intermittable            | indeterminate                 |
| 12192/8       | And                      | An                            |
| 12195/12      | RC (PH) writes           | COC works                     |
| 12195/16      | both                     |                               |
| 12198/19      | gaskets                  | cask                          |
| 12203/1       | phase now to the         | phase but to the              |
| 12203/8       | upride                   | upright                       |
| 12203/12      | off-side                 | offsite                       |
| 12214/13      | Sizemic                  | Seismic                       |
| 12215/24      | sizemic                  | seismic                       |
| 12218/8       | Stenfield (PH) Product   | Spent Fuel Project            |
| 12222/12      | accents                  | accident review               |
| 12222/13      | which could              | which shielding could         |
| 12222/14      | or                       | for                           |
| 12224/19      | phenomenon               | phenomena                     |
| 12236/1       | general                  | shielding                     |
| 12244/7       | to be the same, they are | not to be the same, they have |
| 12260/23      | of                       | with                          |
| 12261/4, 5    | MCMP                     | MCNP                          |
| 12261/6       | for                      | with                          |
| 12261/23      | and cleaned              | including                     |
| 12269/3, 7, 8 | masks                    | mass                          |
| 12270/4       | SCR                      | SER                           |
| 12281/1       | reduced                  | produced                      |
| 12281/10      | lack                     | activation                    |

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| 12283/18    | O   | zero  |
| 12284/18    | cobalt  | Cobra   |
| 12297/13    | WATERS  | TURK  |
| 12314/21    | boundary  | bounding  |
| 12315/13    | what  | with  |
| 12321/25    | dos   | dose  |
| 12322/23-24 | some at   | Number  |
| 12334/15    | increase  | decrease  |
| 12335/17    | non-magnic selic                                | non-mechanistically   |
| 12336/17    | field   | fuel  |
| 12344/11    | ISG   | SRP   |
| 12371/21    | water in  | water under   |
| 12374/13    | as  | out of  |
| 12375/22    | Y   |   |
| 12395/23    | conclusionary                                   | conclusory  |
| 12400/23    | ANCIS   | ANSYS   |
| 12411/11    | Do you what                                     | Do you know what  |
| 12558/14    | of  | if  |
| 12558/22    | of  | from  |
| 12564/23    | do they   | they do   |
| 12566/22    | Yes, please.                                    | Yes, please admit PFS Exhibit Nos. 241, 242, and 243.                             |
| 12583/5     | wee   | were  |
| 12593/24    | MPC's wall is                                   | the MPC is welded shut  |
| 12616/12    | construction                                    | construct   |
| 12647/23    | they  | that  |
| 12648/8     | DR. RESNIKOFF: Yes.                             |   |
| 12648/24    | (Insert pre-filed testimony of Dr. Stamatakos.) | (Insert NRC Staff Rebuttal Testimony of Dr. John A. Stamatakos concerning Unified |

| Page/Line       | Delete                            | Replace deleted text with:                              |
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|                 |                                   | <i>Contention Utah L/QQ, Part E (Seismic Exemption)</i> |
| 12649/25        | in                                | at  |
| 12650/5         | center                            | Center  |
| 12650/7         | in                                | at  |
| 12659/22        | inside                            | inset   |
| 12659/23        | was                               |   |
| 12660/13        | boundary. Namely                  | boundary, namely  |
| 12664/13        | symbol                            | symbols that  |
| 12664/15        | did                               | used  |
| 12665/15        | plated (PH)                       | planar  |
| 12665/17        | listric (PH) as those             | listric. Those  |
| 12667/12        | rate one way of looking at is the | rate is one way of looking at the                       |
| 12667/14        | as                                |   |
| 12686/1         | has                               | was   |
| 12691/10        | provided, this                    | provided. This  |
| 12694/4         | stand at                          | have Standard   |
| 12695/13        | which Commission                  | which the Commission's                                  |
| 12695/17        | can't come                        | and came  |
| 12702/11        | topical Corps (PH) 2              | Topical Report 2  |
| 12702/14        | overall                           | over all  |
| 12704/22-23     | the INEEE                         | IEEE  |
| 12705/2         | designed then                     | designed for, then                                      |
| 12705/23        | a                                 |   |
| 12710/15        | fox                               | Box   |
| 12712/23        | cites                             | sites   |
| 12713/3         | separately                        | separating  |
| 12714/8, 10, 13 | economic                          | Yucca Mountain  |
| 12714/12        | to modeled                        | to be modeled   |

| Page/Line   | Delete  | Replace deleted text with:   |
|-------------|---|--|
| 12714/21    | source that side                                  | source side  |
| 12714/25    | separately  | separating   |
| 12715/13    | eolian (PH) tor                                   | aleatory   |
| 12721/2     | Short in  | Short. In  |
| 12721/2     | paper that  | paper,   |
| 12721/4     | the   |  |
| 12721/22    | at that   | at. That   |
| 12746/7     | occurrence  | recurrence   |
| 12748/1     | mainly I'm  | mainly -- I'm  |
| 12761/7     | ESHA  | PSHA   |
| 12806/1     | used  | is used.   |
| 12810/11    | has   | had  |
| 12825/21    | on the  | other than   |
| 12839/20    | .1  | 1.1  |
| 12843/13    | admission   | omission   |
| 12849/5     | past  | pads   |
| 12914/11    | passed  | past   |
| 12951/17    | (Insert prefiled testimony of Dr. Allin Cornell.) | (Insert <i>Rebuttal Testimony of C. Allin Cornell to the Testimony of State Witness Dr. Walter J. Arabasz on Section E of Unified Contention Utah L/QQ</i> ) |
| 12952/17    | of  |  |
| 12952/18-19 | factor. Such as I inferred from the 6728          | factor, such as I inferred from NUREG 6728,  |
| 12952/19    | PRA is  | those PRAs   |
| 12953/10    | would   | it would   |
| 12953/24    | I guess   | against  |
| 12954/10    | particular one                                    | person   |
| 12955/9     | conservatism                                      | conservative side  |

| <b>Page/Line</b> | <b>Delete</b>  | <b>Replace deleted text with:</b> |
|------------------|----------------|-----------------------------------|
| 12956/1          | danthing (PH)  | damping                           |
| 12956/22         | less           | less than                         |
| 12961/25         | is             | it is                             |
| 12963/9          | isolatham (PH) | isolation                         |
| 12965/5          | simply         | simplify                          |
| 12966/13         | design         | designed                          |
| 12966/21         | 10,000         | of 10,000                         |
| 12973/12         | would          | he would                          |

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