September 17, 2002

DOCKETED USNRC

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

September 24, 2002 (3:11PM)

Before the Atomic Safety and Licensing Board

OFFICE OF SECRETARY RULEMAKINGS AND ADJUDICATIONS STAFF

In the Matter of)		ADJUDICAT
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 7	'2-22 - ISFSI
(Private Fuel Storage Facility))		

FILING OF APPENDICES A AND B AND ERRATA TO APPLICANT'S PROPOSED FINDINGS OF FACT AND CONCLUSIONS OF LAW ON CONTENTION UTAH K/CONFEDERATED TRIBES B

In its Proposed Findings of Fact and Conclusions of Law on Contention Utah K/Confederated Tribes B filed August 30, 2002, Applicant Private Fuel Storage, L.L.C. ("Applicant" or "PFS") stated that it would later file an Appendix A to its Proposed Findings showing the location in the hearing transcript at which each of the pre-filed testimonies were admitted by the Board and an Appendix B listing the parties' exhibits that had been marked and identified for contention Utah K and the transcript location of the Board's ruling on their admission into evidence. See PFS Utah K Proposed Findings at 3-4, notes 3 and 4. PFS is today filing these appendices, which are attached hereto. In addition, PFS is filing an errata to its Proposed Utah K Findings to correct some record

Template=SECY-057

¹ In preparing Appendix B, PFS could not identify any ruling by the Board admitting State Exhibit 154. Therefore, this Exhibit should be added to the Table of exhibits requiring Board action set forth on page 2 of the Joint Report on Status of Utah Contention K Exhibits and Other Open items from Hearing Concerning Utah Contention K filed August 21, 2002. Counsel for PFS has conferred with counsel for the NRC Staff and neither PFS nor the Staff have any objection to the admission of this exhibit.

citations and cross-references within its Findings and to correct several typographical, grammatical and punctuation errors that affect the readability of the document in certain places.

Respectfully submitted,

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September 17, 2002

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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 Filing of Appendices A and B and Errata to Applicant's Proposed Findings Of Fact And Conclusions of Law On Contention Utah K/Confederated Tribes B 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 17th day of September, 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

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

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; kjerry@erols.com

- *Office of Commission Appellate Adjudication U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001
- * Adjudicatory File
 Atomic Safety and Licensing Board Panel
 U.S. Nuclear Regulatory Commission
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Document #. 1272678 v.1

Errata Sheet for Applicant's Proposed of Fact and Conclusions of Law on Contention Utah K/Confederated Tribes B

Pg	1	Ln	Correction
2		16	In 1999, pursuant to a PFS summary disposition motion, of the Board
12		Fn 13, Ln 2	See Finding 187 189, infra.
24		9-10	(55 in control-and out of a population of 61, or $55/61 = 90.2\%$)
33		14-17	PFS selected <u>a_10-year</u> average to minimize the effect of year-to-year statistical fluctuations in the data and used the most recent 10 years of data, and hence the most relevant, at the time, the analysis was initially performed.
61	36	Fn 46	See note-38_35, supra.
66	47	Ln 7 w/in ¶47	Note-66_49, supra.
74	63	Ln 6 w/in ¶63	See Finding-43_41, supra.
77	68	Fn 65, Ln 3	See Finding-97_94, infra.
99	106	Ln 8 w/in ¶106	Tr. at 3529, 3767 (Cole),-3548_8548
111	127	Lns 7-8 w/in ¶127	Lt. Col. Horstman had to admit that his data and-represented
115-116	135	Ln 7 on pg. 116	the site before ground impact would-occurred
116	136	Fn 106, Lns 2-3	"both versions"
117-118	138	Ln 8 on pg. 118	Finding-98_97, supra.
121-122	145	Ln 6 on pg. 122	However, to accounting account for "unforeseen
122	145	Fn 109, Ln 2	take action to avoid or minimize or-damage to
123-124	148	Ln 8 on pg. 124	hearing heading to a relatively unoccupied area on the ground.
125	148	Ln 14 on page 125	populated areas." PFS Exh. 158 at <u>3</u> (emphasis added); see also PFS

Errata Sheet for Applicant's Proposed of Fact and Conclusions of Law on Contention Utah K/Confederated Tribes B

126	148	Ln 1 on pg. 126	"No structures were nearby." PFS Exh. 179 at 2 <u>-3</u>
129	151	Ln 1 w/in ¶151	the pilots maneuvering-this aircraft to
130	153	Ln 1 w/in ¶153	Finally the remaining 14 13 accident reports
135	163	Ln 16 w/in ¶163	Finding-11_152 above, we find the reports
137	166	Ln 7 w/in ¶166	Decided to eject." PFS Exh. 128 at 8 and 205;
142-143	178	Ln 9 on pg. 143	In that case the aircraft impacted in federal land 11 number-miles from
144	183	Ln 2 w/in ¶183	Finding-14_16 above are also not highly sensitive

Document #: 1272535 v.1

Appendix A Pre-Filed Testimony Utah Contention K/Confederated Tribes B

Witness	Testimony	Location in Transcript
James L. Cole, Jr. Wayne O. Jefferson, Jr. Ronald E. Fly	Testimony of James L. Cole, Jr., Wayne O. Jefferson, Jr., and Ronald E. Fly on Aircraft Crash Hazards at the PFSF — Contention Utah K/Confederated Tribes B	Tr. 3075-76, 3080*
Stephen Vigeant	Testimony of Stephen A. Vigeant on Aircraft Crash Hazards at the PFSF — Contention Utah K/Confederated Tribes B	Tr. 3090*
Jeffrey Johns	Applicant's Prefiled Testimony of Jeffrey Johns on Contention Utah K/Confederated Tribes B	Tr. 3204-07*
Kazimieras M. Campe Amitava Ghosh	NRC Staff Testimony of Kazimieras M. Campe and Amitava Ghosh Concerning Contention Utah K/Confederated Tribes B (Inadequate Consideration of Credible Accidents)	Tr. 4078*
Hugh Horstman	State of Utah's Prefiled Testimony of Lieutenant Colonel Hugh Horstman (U.S.A.F. Retired) for Contention Utah K/Confederated Tribes B	Tr. 4222-25*
Marvin Resnikoff	State of Utah's Prefiled Testimony of Dr. Marvin Resnikoff Regarding Contention Utah K/Confederated Tribes B	Tr. 8698

^{*} Indicates that the Testimony was offered and accepted but not bound into the Transcript.

Document # 1271602 v 1

	Transcript Location		
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)	
PFS Exhibit N	Tr. 3066	Tr. 3080	
Aircraft Crash Report dated 08/10/00			
PFS Exhibit O	Tr. 3080	Tr. 3082	
Revised Addendum to Aircraft Crash Report dated			
07/20/01			
PFS Exhibit P	Tr. 3082	Tr. 3083	
Map of UTTR			
PFS Exhibit Q	Tr. 3084-85	Tr. 3086	
Graphs of F-16 Flight Hours and Destroyed F-16			
Aircraft			
PFS Exhibit R	Tr. 3084-85	Tr. 3086	
Graphs of F-16A Flight Hours and Destroyed			
F-16A Aircraft			
PFS Exhibit S	Tr. 3084-85	Tr. 3086	
Graphs of F-15A Flight Hours and Destroyed			
F-15A Aircraft			
PFS Exhibit T	Tr. 3084-85	Tr. 3086	
Graphs of F-106 Flight Hours and Destroyed			
F-106 Aircraft			
PFS Exhibit U	Tr. 3084-85	Tr. 3086	
Graphs of F-111 Flight Hours and Destroyed			
F-111 Aircraft	m 2004.05	m 2006	
PFS Exhibit V	Tr. 3084-85	Tr. 3086	
Graphs of F-4 Flight Hours and Destroyed F-4			
Aircraft	T. 2004 05	T 2006	
PFS Exhibit W UTTR Climate Conditions	Tr. 3084-85	Tr. 3086	
PFS Exhibit X	Tr. 3084-85	T- 2006	
Table One of Tab H of Aircraft Crash Report as	11. 3084-83	Tr. 3086	
marked-up at 07/27/01 Deposition of Lt. Colonel			
Horstman			
PFS Exhibit Y	Tr. 3084-85	Tr. 3086	
Excerpt from 07/27/01 Deposition Transcript of	11. 5004-05	11. 5080	
Lt. Colonel Hugh Horstman			
PFS Exhibit Z		Withdrawn in accordance	
Stone and Webster Calculation Re: Velocities		with Board's Rulings on	
Needed for F-16 Jet Engine to Penetrate		Motions in Limine	
HI-STORM Storage Cask Sidewall and Top Lid		See Tr. 3084	
PFS Exhibit KKK	Tr. 3086-87	Tr. 3088-3089	
Map of UTTR from Hill AFB down to Michael			
AAF			

	Transcript Location		
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)	
PFS Exhibit LLL	Tr. 3087-88	Tr. 3088-3089	
Map of Skull Valley			
PFS Exhibit MMM	Tr. 3569	Tr. 3656	
Drawing of Cockpit Arrangement from F-16-1			
Pilot's Manual (Technical Order 1F-16C-1)			
PFS Exhibit NNN	Tr. 3579	Tr. 3657	
Pages 1-133 and 1-134 from Technical Order 1F-			
16C-34-1-1			
PFS Exhibit OOO	Tr. 3579	Tr. 3657	
Page 1-94 from F-16-1 Pilot's Manual (Technical			
Order 1F-16C-1)			
PFS Exhibit PPP	Tr. 3603	Tr. 3657	
Pages 3-42 and 3-43 from F-16-1 Pilot's Manual			
(Technical Order 1F-16C-1)			
PFS Exhibit QQQ	Tr. 3628	Pending Board	
Summary of Air Force Instruction 51-503 and		Determination ¹	
Examples of Pilot Avoidance			
PFS Exhibit RRR	Tr. 3686	Tr. 3690	
U.S. NRC Standard Review Plan NUREG-0800;	11.5000	11.0050	
Section 3.5.1.6: Aircraft Hazards			
PFS Exhibit SSS	Tr. 3690	Not admitted and	
Excerpts from DOE Standard 3014-96 Accident		Exhibit withdrawn	
Analysis for Aircraft Crash into Hazardous		Tr. 3704	
Facilities			
PFS Exhibit TTT	Tr. 3715	Tr. 3723	
U.K. Atomic Energy Authority, Safety and		11101-0	
Reliability Directorate, "A Method for the Site-			
Specific Assessment of Aircraft Crash Hazards,"			
July 1987			
PFS Exhibit UUU	Tr. 3726	Tr. 3733	
F-16 Accident Statistics/100,000 Flight Hours			
PFS Exhibit VVV	Tr. 3735	Tr. 3739	
F-16 Destroyed Aircraft Rates FY89-01			
PFS Exhibit WWW	Tr. 3757	Pending Board	
Email from Walter Boyne to J. Cole dated 3/15/02		Determination 1	
PFS Exhibit XXX	Tr. 3757	Pending Board	
Email from Gene Frank to Jack Cole dated 3/17/02	 -	Determination ¹	

¹ See Joint Report on status of Utah Contention K Exhibits and other open items from Hearing concerning Utah Contention K (August 21, 2002) ("Utah K Joint Status Report"). The State objects to the Exhibit's admission.

	Transcript Location		
Exhibit Number And Description	Identification or	Admission of Exhibit (Or	
Exhibit Number And Description	Marking of Exhibit	Other Status if Noted)	
PFS Exhibit YYY	Tr. 3757	Pending Board	
Email from Francis Woods to Walter Boyne dated		Determination ²	
3/13/02			
PFS Exhibit ZZZ	Tr. 3757	Pending Board	
Email from Richard Noonan to Walter Boyne		Determination ²	
dated 3/11/02			
PFS Exhibit 79	Tr. 3945	Pending Board	
21 April 1993 F-16 Accident Investigation Report		Determination ³	
PFS Exhibit 80	Tr. 4259	Tr. 4262	
25 May 1990 F-16 Accident Investigation Report			
PFS Exhibit 81	Tr. 4259	Tr. 4268	
01/30/02 E-mail to Jack Cole from Paul Cormier			
re: FOIA Request			
PFS Exhibit 82	Tr. 4396	Tr. 4407	
U.S. Air Force Mishap Rate History, 1947-1998			
PFS Exhibit 83	Tr. 4410	Pending Board	
Excerpts from 01/30/01 Declaration of Lt. Col.		Determination ³	
Horstman, w/markings made during Lt. Col.			
Horstman's July 27, 2001 Deposition			
PFS Exhibit 97	Tr. 8448	Tr. 8501	
21 June 2000 F-16 Accident Investigation Report			
PFS Exhibit 98	Tr. 8448	Tr. 8501	
17 October 2001 F-16 Accident Investigation			
Report			
PFS Exhibit 99	Tr. 8540	Tr. 8555	
Excerpts from December 11, 2000 Deposition			
Transcript of Lt. Col. Horstman			
PFS Exhibit 100	Tr. 8663	Tr. 8673	
Table of Skull Valley-Type Event Accidents in			
which pilot retained control			
PFS Exhibit 100A	Tr. 13009	Tr. 13011	
Table of Skull Valley-Type Event Accidents with			
Hand-written Changes			
PFS Exhibit 101	Tr. 8734	Not Admitted	
Excerpts from Data Development Technical		Tr. 8747	
Support Document for the Aircraft Crash Risk			
Analysis Methodology Standard, August 1, 1996			

² See Utah K Joint Status Report. The State objects to the Exhibit's admission.

³ See Utah K Joint Status Report. No objection to the admission of the Exhibit.

	Transcript Location		
Exhibit Number And Description	Identification or	Admission of Exhibit (Or	
	Marking of Exhibit	Other Status if Noted)	
PFS Exhibit 102	Tr. 8756	Pending Board	
Graph entitled F-16 Class-A Mishap Rate Rank vs.		Determination ⁴	
Fiscal Yr. Rank			
PFS Exhibit 103	Tr. 13004	Tr. 13004	
12 October 1988 F-16 Accident Investigation			
Report			
PFS Exhibit 104	Tr. 13004	Tr. 13004	
05 December 1988 F-16 Accident Investigation			
Report			
PFS Exhibit 105	Tr. 13004	Tr. 13004	
14 February 1989 F-16 Accident Investigation			
Report			
PFS Exhibit 106	Tr. 13004	Tr. 13004	
13 March 1989 F-16 Accident Investigation			
Report			
PFS Exhibit 107	Tr. 13004	Tr. 13004	
14 March 1989 F-16 Accident Investigation			
Report			
PFS Exhibit 108	Tr. 13004	Tr. 13004	
28 June 1989 F-16 Accident Investigation Report			
PFS Exhibit 109	Tr. 13004	Tr. 13004	
18 December 1989 F-16 Accident Investigation			
Report			
PFS Exhibit 110	Tr. 13004	Tr. 13004	
3 April 1990 F-16 Accident Investigation Report			
PFS Exhibit 111	Tr. 13004	Tr. 13004	
7 August 1990 F-16 Accident Investigation Report			
PFS Exhibit 112	Tr. 13004	Tr. 13004	
9 August 1990 F-16 Accident Investigation Report			
PFS Exhibit 113	Tr. 13004	Tr. 13004	
3 September 1990 F-16 Accident Investigation			
Report			
PFS Exhibit 114	Tr. 13004	Tr. 13004	
19 September 1990 F-16 Accident Investigation			
Report			
PFS Exhibit 115	Tr. 13004	Tr. 13004	
20 September 1990 F-16 Accident Investigation			
Report			
-			

⁴ See Utah K Joint Status Report. The State objects to the Exhibit's admission.

	Transcript Location		
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)	
PFS Exhibit 116	Tr. 13004	Tr. 13004	
23 October 1990 F-16 Accident Investigation			
Report			
PFS Exhibit 117	Tr. 13004	Tr. 13004	
1 December 1990 F-16 Accident Investigation			
Report			
PFS Exhibit 118	Tr. 13004	Tr. 13004	
13 January 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 119	Tr. 13004	Tr. 13004	
15 January 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 120	Tr. 13004	Tr. 13004	
24 January 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 121	Tr. 13004	Tr. 13004	
26 January 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 122	Tr. 13004	Tr. 13004	
15 February 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 123	Tr. 13004	Tr. 13004	
15 March 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 124	Tr. 13004	Tr. 13004	
19 March 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 125	Tr. 13004	Tr. 13004	
4 April 1991 F-16 Accident Investigation Report			
PFS Exhibit 126	Tr. 13004	Tr. 13004	
11 April 1991 F-16 Accident Investigation Report			
PFS Exhibit 127	Tr. 13004	Tr. 13004	
18 April 1991 F-16 Accident Investigation Report			
PFS Exhibit 128	Tr. 13004	Tr. 13004	
7 May 1991 F-16 Accident Investigation Report			
PFS Exhibit 129	Tr. 13004	Tr. 13004	
8 June 1991 F-16 Accident Investigation Report			
PFS Exhibit 130	Tr. 13004	Tr. 13004	
17 July 1991 F-16 Accident Investigation Report			
PFS Exhibit 131	Tr. 13004	Tr. 13004	
30 July 1991 F-16 Accident Investigation Report			

	Transcript Location		
Exhibit Number And Description	Identification or	Admission of Exhibit (Or	
Exhibit Number 7xiid Description	Marking of Exhibit	Other Status if Noted)	
PFS Exhibit 132	Tr. 13004	Tr. 13004	
14 November 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 133	Tr. 13004	Tr. 13004	
27 November 1991 F-16 Accident Investigation			
Report			
PFS Exhibit 134	Tr. 13004	Tr. 13004	
13 January 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 135	Tr. 13004	Tr. 13004	
14 January 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 136	Tr. 13004	Tr. 13004	
3 March 1992 F-16 Accident Investigation Report			
PFS Exhibit 137	Tr. 13004	Tr. 13004	
24 April 1992 F-16 Accident Investigation Report			
PFS Exhibit 138	Tr. 13004	Tr. 13004	
5 May 1992 F-16 Accident Investigation Report			
PFS Exhibit 139	Tr. 13004	Tr. 13004	
31 July 1992 F-16 Accident Investigation Report			
PFS Exhibit 140	Tr. 13004	Tr. 13004	
31 August 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 141	Tr. 13004	Tr. 13004	
1 September 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 142	Tr. 13004	Tr. 13004	
8 September 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 143	Tr. 13004	Tr. 13004	
22 October 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 144	Tr. 13004	Tr. 13004	
27 October 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 145	Tr. 13004	Tr. 13004	
17 December 1992 F-16 Accident Investigation			
Report			
PFS Exhibit 146	Tr. 13004	Tr. 13004	
18 February 1993 F-16 Accident Investigation			
Report			

	Transcript Location		
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)	
PFS Exhibit 147	Tr. 13004	Tr. 13004	
19 February 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 148	Tr. 13004	Tr. 13004	
23 February 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 149	Tr. 13004	Tr. 13004	
28 April 1993 F-16 Accident Investigation Report			
PFS Exhibit 150	Tr. 13004	Tr. 13004	
18 May 1993 F-16 Accident Investigation Report			
PFS Exhibit 151	Tr. 13004	Tr. 13004	
18 May 1993 F-16 Accident Investigation Report			
PFS Exhibit 152	Tr. 13004	Tr. 13004	
24 May 1993 F-16 Accident Investigation Report			
PFS Exhibit 153	Tr. 13004	Tr. 13004	
23 June 1993 F-16 Accident Investigation Report			
PFS Exhibit 154	Tr. 13004	Tr. 13004	
27 July 1993 F-16 Accident Investigation Report	1		
PFS Exhibit 155	Tr. 13004	Tr. 13004	
10 August 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 156	Tr. 13004	Tr. 13004	
11 August 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 157	Tr. 13004	Tr. 13004	
27 August 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 158	Tr. 13004	Tr. 13004	
11 September 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 159	Tr. 13004	Tr. 13004	
27 September 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 160	Tr. 13004	Tr. 13004	
8 October 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 161	Tr. 13004	Tr. 13004	
8 November 1993 F-16 Accident Investigation			
Report			
PFS Exhibit 162	Tr. 13004	Tr. 13004	
9 November 1993 F-16 Accident Investigation			
Report			

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
Danible Number 7 and Description	Marking of Exhibit	Other Status if Noted)
PFS Exhibit 163	Tr. 13004	Tr. 13004
29 November 1993 F-16 Accident Investigation		
Report		
PFS Exhibit 164	Tr. 13004	Tr. 13004
7 February 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 165	Tr. 13004	Tr. 13004
14 February 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 167 ⁵	Tr. 13004	Tr. 13004
28 February 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 168	Tr. 13004	Tr. 13004
23 March 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 169	Tr. 13004	Tr. 13004
30 March 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 170	Tr. 13004	Tr. 13004
6 May 1994 F-16 Accident Investigation Report		
PFS Exhibits 171	Tr. 13004	Tr. 13004
12 June 1994 F-16 Accident Investigation Report		
PFS Exhibit 172	Tr. 13004	Tr. 13004
1 July 1994 F-16 Accident Investigation Report		
PFS Exhibit 173	Tr. 13004	Tr. 13004
20 September 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 174	Tr. 13004	Tr. 13004
25 October 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 175	Tr. 13004	Tr. 13004
13 January 1995 F-16 Accident Investigation		
Report		
PFS Exhibit 176	Tr. 13004	Tr. 13004
26 January 1995 F-16 Accident Investigation		
Report		
PFS Exhibit 177	Tr. 13004	Tr. 13004
5 February 1995 F-16 Accident Investigation		
Report		

⁵ There is no PFS Exhibit 166.

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
Zamioti (umoo imo zobolipion	Marking of Exhibit	Other Status if Noted)
PFS Exhibit 178	Tr. 13004	Tr. 13004
10 February 1995 F-16 Accident Investigation		
Report		
PFS Exhibit 179	Tr. 13004	Tr. 13004
15 May 1995 F-16 Accident Investigation Report		
PFS Exhibit 180	Tr. 13004	Tr. 13004
25 June 1995 F-16 Accident Investigation Report		
PFS Exhibit 181	Tr. 13004	Tr. 13004
13 July 1995 F-16 Accident Investigation Report		
PFS Exhibit 182	Tr. 13004	Tr. 13004
21 August 1995 F-16 Accident Investigation		
Report		
PFS Exhibit 183	Tr. 13004	Tr. 13004
21 December 1995 F-16 Accident Investigation		
Report		
PFS Exhibit 184	Tr. 13004	Tr. 13004
19 March 1996 F-16 Accident Investigation		
Report		
PFS Exhibit 185	Tr. 13004	Tr. 13004
3 August 1996 F-16 Accident Investigation Report		
PFS Exhibit 186	Tr. 13004	Tr. 13004
27 November 1996 F-16 Accident Investigation		
Report		
PFS Exhibit 187	Tr. 13004	Tr. 13004
7 January 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 188	Tr. 13004	Tr. 13004
29 January 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 189	Tr. 13004	Tr. 13004
4 February 1997 F-16 Accident Investigation		
Report		······································
PFS Exhibit 190	Tr. 13004	Tr. 13004
18 March 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 191	Tr. 13004	Tr. 13004
21 April 1997 F-16 Accident Investigation Report		
PFS Exhibit 192	Tr. 13004	Tr. 13004
12 May 1997 F-16 Accident Investigation Report		
PFS Exhibit 193	Tr. 13004	Tr. 13004
20 June 1997 F-16 Accident Investigation Report		

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
DANISH Number 1311d Description	Marking of Exhibit	Other Status if Noted)
PFS Exhibit 194	Tr. 13004	Tr. 13004
22 August 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 195	Tr. 13004	Tr. 13004
16 September 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 196	Tr. 13004	Tr. 13004
6 November 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 197	Tr. 13004	Tr. 13004
7 January 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 198	Tr. 13004	Tr. 13004
8 January 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 199	Tr. 13004	Tr. 13004
25 March 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 200	Tr. 13004	Tr. 13004
22 April 1998 F-16 Accident Investigation Report		
PFS Exhibit 201	Tr. 13004	Tr. 13004
13 May 1998 F-16 Accident Investigation Report		
PFS Exhibit 202	Tr. 13004	Tr. 13004
19 June 1998 F-16 Accident Investigation Report		
PFS Exhibit 203	Tr. 13004	Tr. 13004
22 July 1998 F-16 Accident Investigation Report		
PFS Exhibit 204	Tr. 13004	Tr. 13004
24 July 1998 F-16 Accident Investigation Report		
PFS Exhibit 205	Tr. 13004	Tr. 13004
24 August 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 206	Tr. 13004	Tr. 13004
1 September 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 207	Tr. 13004	Tr. 13004
12 September 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 208	Tr. 13004	Tr. 13004
23 January 1992 F-16 Accident Investigation		
Report		
PFS Exhibit 209	Tr. 13004	Tr. 13004
5 June 1990 F-16 Accident Investigation Report		<u> </u>

Transcript Location		ript Location
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)
PFS Exhibit 210	Tr. 13004	Tr. 13004
19 December 1991 F-16 Accident Investigation		
Report		1
PFS Exhibit 211	Tr. 13004	Tr. 13004
14 April 1992 F-16 Accident Investigation Report		
PFS Exhibit 212	Tr. 13004	Tr. 13004
7 July 1992 F-16 Accident Investigation Report		
PFS Exhibit 213	Tr. 13004	Tr. 13004
26 January 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 214	Tr. 13004	Tr. 13004
16 February 1994 F-16 Accident Investigation	}	
Report		
PFS Exhibit 215	Tr. 13004	Tr. 13004
18 October 1994 F-16 Accident Investigation		
Report		
PFS Exhibit 216	Tr. 13004	Tr. 13004
31 July 1996 F-16 Accident Investigation Report		
PFS Exhibit 217	Tr. 13004	Tr. 13004
22 October 1997 F-16 Accident Investigation		
Report		
PFS Exhibit 218	Tr. 13004	Tr. 13004
23 March 1998 F-16 Accident Investigation		
Report		
PFS Exhibit 245	Tr. 13054	Tr. 13074
Salt Lake City 2001 Weather Observations		
PFS Exhibit 246	Tr. 13555	Tr. 13678
Excerpts from F-16-1 Pilot's Manual (Technical		
Order 1F-16C-1)		
State Exhibit 38	Tr. 4217	Tr. 4224
Resume of Lt. Col. Horstman		
State Exhibit 39	Tr. 4217	Tr. 4224
12/30/00 Joint Declaration of Gen. Cole, Gen.		
Jefferson, and Col. Fly		
State Exhibit 40	Tr. 4217	Tr. 4224
Partial Map of UTTR and Sevier B MOA		
State Exhibit 41	Tr. 4217	Tr. 4224
Excerpt from UTTR Web-Site Information		
State Exhibit 42	Tr. 4218	Tr. 4224
Usage report for Sevier B MOA, 11/30/98		

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
	Marking of Exhibit	Other Status if Noted)
State Exhibit 43	Tr. 4218	Tr. 4224
Portions of a low altitude flight map		
State Exhibit 44	Tr. 4218	Tr. 4224
Usage Report for Sevier D MOA, 11/30/98		
State Exhibit 45	Tr. 4218	Tr. 4224
Usage Reports for R-6402A, R-6402B, and		
R-6406, 11/30/98		
State Exhibit 46		Withdrawn in accordance
Excerpt from PFS Limited Appearance Statements		with Board Rulings on
		Motions in Limine
		<u>See</u> Tr. 4224
State Exhibit 47	Tr. 4218	Tr. 4224
Figure 1 of the PFS Aircraft Crash Report (Sevier		
B MOA: Cross Section at Latitude of PFSF)		
State Exhibit 48	Tr. 4218-19	Tr. 4224
Overlay to Exhibit 47		
State Exhibit 49	Tr. 4219	Tr. 4224
Undated news report re: 12 additional F-16s		
assigned to 388 th FW		
State Exhibit 50	Tr. 4219	Tr. 4224
USAF F-16 Crash Statistics 1975-2000		
State Exhibit 51	Tr. 4219	Tr. 4224
Excerpts from Data Development Technical		
Support Document for ACRAM 08/01/96		
State's Exhibit 52	Tr. 4219	Tr. 4224
F-16 Crash History Graph 1975-2000		
State Exhibit 53	Tr. 4219	Tr. 4224
News Article, Joint Strike Fighter program must		
stay on schedule 06/24/00		
State Exhibit 54	Tr. 4219	Tr. 4224
News Release, JSF Contractor Award 10/26/01		
State Exhibit 55	Tr. 4219	Tr. 4224
News Transcript, Interview of E. Aldridge 0/26/01		
State Exhibit 56	Tr. 4220	Tr. 4224
Publication from Air Force Association, May 1999		
State Exhibit 57	Tr. 4220	Tr. 4224
March 1996 ALSAFECOM re: Mutual Support		
During Emergencies and the Ejection Decision	ļ	
State Exhibit 58		Withdrawn in accordance
12/12/00 Deposition of Col. Ronald E. Fly		with Board's Rulings on
		Motions in Limine
	<u> </u>	<u>See</u> Tr. 4224

Transcript Location		ript Location
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
	Marking of Exhibit	Other Status if Noted)
State Exhibit 59	Tr. 4220	Tr. 4224
Internat'l Station Meteorological Climate		
Summary for Dugway Proving Ground		
State Exhibit 60	Tr. 4220	Tr. 4224
AF Instruction 51-503: Aircraft, Missile, Nuclear,		
and Space Accident Investigations 04/05/00		
State Exhibit 61	Tr. 4221	Tr. 4224
10/26/99 Mem. from Col. Ronald G. Oholendt re:		
Reply to FOIA request by James Cole		
State Exhibit 62	Tr. 4221	Tr. 4224
12/28/00 Ltr. from Col. Lee C. Bauer re: Jettisoned		
Ordnance		
State Exhibit 63	Tr. 4221	Tr. 4224
01/18/01 Ltr. from Denise L. King USAF re:		
FOIA request		
State Exhibit 64	Tr. 4221	Tr. 4224
07/18/01 Mem. from AF Headquarters re: Title 14		
Code of Fed. Reg. Part 91.209 Exemption Request		
State Exhibit 65		Withdrawn in accordance
01/30/01 Decl. Of Col. Hugh L. Horstman, Air		with Board's Rulings on
Force (Retired) in Support of the State of Utah's		Motions in Limine
Response to PFS's Motion for Summary		<u>See</u> Tr. 4224
Disposition of Contention Utah K		
State Exhibit 66	Tr. 4221	Tr. 4224
Excerpt from AFI 51-503 Aircraft Accident		
Investigation Report for 05/13/98 Accident		
State Exhibit 67	Tr. 4221	Tr. 4515, 4529
Excerpt from Handbook of North American Birds,		
Vols. 1 & 2		
State Exhibit 68	Tr. 4221-22	Tr. 4515, 4529
01/26/01 Ltr. from J. Kimball, Dir. Utah Division		
of Wildlife Resources re: Waterbird Survey for		
Timpie Springs Waterfowl Management Area	FD (000	
State Exhibit 69	Tr. 4222	Tr. 4224
07/08/97 Notice from Air Force News Website,		
First No-Notice AEF deployment underway		
State Exhibit 70	Tr. 8699	Tr. 8709
Dr. Marvin Resnikoff Curriculum Vitae	m 0.000	
State Exhibit 71	Tr. 8699	Tr. 8709
U.S. NRC filings and other documents relating to		
Determination of Probability of Aircraft Crashes		
Reviewed by Dr. Resnikoff		

Transcript Location		ript Location
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
	Marking of Exhibit	Other Status if Noted)
State Exhibit 72	Tr. 8699	Tr. 8709
Table entitled Probability of an Aircraft Crash		
from F-16s transiting Skull Valley en route to the		
UTTR South Range		
State Exhibit 73	Tr. 8699	Withdrawn in accordance
NRC Staff Posthearing Memorandum Re: Aircraft		with Board's Rulings on
Crash Probability Issue		Motions in Limine
		<u>See</u> Tr. 8703-07
State Exhibit 74	Tr. 8699-8700	Tr. 8709
Cover Sheet and Excerpt from U.S. Air Force		
Flying Safety Magazine		<u> </u>
State Exhibit 75	Tr. 8700	Tr. 8709
Information re: F-16 Crashes		
State Exhibit 76	Tr. 8700	Tr. 8709
F-16 Crash Rate Calculations		
State Exhibit 77	Tr. 8700	Tr. 8709
Table entitled Probability of Aircraft returning on		
Moser Recovery Route Crashing into the PFSF		
State Exhibit 78	Tr. 8700	Tr. 8709
Tables entitled Probability of Aircraft Conducting		
Air-to-Air Combat Training at the UTTR South		
Area to Crash into PFSF		
State Exhibit 79	Tr. 8700-8701	Tr. 8709
Table entitled: Probability of Jettisoned Ordnance		
Striking the PFS Facility		
State Exhibit 80	Tr. 8701	Tr. 8709
Projectile Path and Impact Angle		
State Exhibit 81	Tr. 8701	Tr. 8709
Table entitled: Cumulative Probability of an		
Aircraft Crash and Ordnance Striking the PFS Site		
State Exhibit 82	Tr. 8701-02	Withdrawn in accordance
Calculation of Minimum Velocity for Jettisoned		with Board's Rulings on
Ordnance to penetrate a HI-STORM Cask		Motions in Limine
		See Tr. 8702
State Exhibit 83	Tr. 8702	Withdrawn in accordance
Summaries re: Cesium Release		with Board's Ruling on
		Motions in Limine
		See Tr. 8702
State Exhibit 84	Tr. 8702	Withdrawn in accordance
Tables and Diagrams concerning Radiation		with Board's Ruling on
Release Calculation		Motions in Limine
	<u> </u>	<u>See</u> Tr. 8702

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
Lamber tand Description	Marking of Exhibit	Other Status if Noted)
State Exhibit 144	Tr. 3129	Tr. 3162
Photo of F-16		
State Exhibit 145	Tr. 3161	Tr. 3164
Photo of AC-47D		
State Exhibit 146	Tr. 3169	Withdrawn
2-10-99 PFS RAI Response, RAI 2		Tr. 3182-83
State Exhibit 147	Tr. 3190	Tr. 3195
Formulas, NUREG and Modified		
State Exhibit 148	Tr. 3195	Tr. 3199
Skull Valley F-16 Crash Probability		
State Exhibit 149	Tr. 3213	Tr. 3247
"R" Factor Determination of .145		
State Exhibit 150	Tr. 3247	Tr. 3254
Page 3-43, F-16-1 Pilot's Manual (Technical Order		
1F-16C-1)		
State Exhibit 151	Tr. 3255	Pending Board
Excerpts from USAF Flying Safety Magazine,		Determination ⁶
Sept. 2001		
State Exhibit 152	Tr. 3299	Not Offered
Chapter 17 from the U.S. Air Force Flight		Tr. 3312
Surgeon's Guide		
State Exhibit 153	Tr. 3326	Not Offered
Air Force News Release April 5, 1999		Tr. 3345
State Exhibit 154	Tr. 3359, 3361	Pending Board
F-16 Mishap History 1975-2001		Determination ⁷
State Exhibit 155	Tr. 3384	Tr. 8858
Class A Crash Rate, F95-FY01		
State Exhibit 156	Tr. 3413	Not Admitted
Sevier B MOA: Cross Section at PFSF Latitude		Tr. 3481
(3000 to 4000 Feet AGL Cross-Section)		
State Exhibit 156A	Tr. 3492-93	Not Admitted
Exhibit 156 with vertical and horizontal bar lines		Tr. 3493
State Exhibit 156-B	Tr. 3725	Tr. 3725
Exhibit 156A, with 3,000 to 4,000 Feet AGL		
Cross-Section Extended		

⁶ See Utah K Joint Status Report. No objection to the admission of the Exhibit.

⁷ <u>See</u> Filing of Appendices A and B and Errata to Applicant's Proposed Findings of Fact and Conclusions of Law on Contention Utah/Confederated Tribes B (September 17, 2002) at note 1. No objection to the admission of the Exhibit.

Transcript Location		ript Location
Exhibit Number And Description	Identification or Marking of Exhibit	Admission of Exhibit (Or Other Status if Noted)
State Exhibit 157	Tr. 4110	Pending Board
Preliminary Aircraft Crash Hazard Assessment at		Determination ⁸
Proposed Yucca Mountain Repository		
State Exhibit 186	Tr. 8576	Tr. 8580
Sevier B MOA with Yellow Overlay	ļ	
State Exhibit 187	Tr. 8855	Tr. 8857
Class A Crash Rate F95-FY01, w/lifetime crash		
rate		
State Exhibit 220	Tr. 13144	Tr. 13292-93
Colonel Bernard Training Video	<u></u>	
State Exhibit 221	Tr. 13181	Tr. 13294-95
Video of F-16 simulation		
State Exhibit 222	Tr. 13307-08	Tr. 13714
Aerial photograph of Skull Valley		
State Exhibit 223	Tr. 13328	Tr. 13412
State's Analysis of Mishap Reports Shown on		
Applicant's Exhibit 100		
State Exhibit 224	See Filing of State of	Pending Board
Excerpts from F-16-1 Pilot's Manual (Technical	Utah Exhibit 224,	Determination ⁹
Order 1F-16CG-1)	August 15, 2002	
Staff Exhibit D	Tr. 4079	Tr. 4079
Graph of Skull Valley Elevation Profile at PFSF		
Latitude		
Staff Exhibit KK	Tr. 8888	Tr. 8893
Plot using Spearman Rank Correlation Analysis		
(F-16 Class A and Class B Mishaps)		
Staff Exhibit LL	Tr. 8902	Tr. 8903
F-16 Aircraft Class A and Class Mishaps, Linear]	
Regression		
NRC Staff Exhibit 65	Tr. 13475	Tr. 13502
Excerpts from The Great Book of Modern	}	
Warplanes		
Joint Exhibit 1	Tr. 3741	Tr. 3745
26 December 1989 F-16 Accident Investigation		
Report		
Joint Exhibit 2	Tr. 3741	Tr. 3745
16 March 1990 F-16 Accident Investigation]	
Report		

⁸ See Utah K Joint Status Report. No objection to the admission of the Exhibit.

⁹ See Utah K Joint Status Report.

	Transcript Location	
Exhibit Number And Description	Identification or	Admission of Exhibit (Or
Exhibit Number And Description	Marking of Exhibit	Other Status if Noted)
Joint Exhibit 3	Tr. 3741	Tr. 3745
20 February 1991 F-16 Accident Investigation		
Report		
Joint Exhibit 4	Tr. 3741	Tr. 3745
16 December 1991 F-16 Accident Investigation		
Report		
Joint Exhibit 5	Tr. 3741	Tr. 3745
31 May 1992 F-16 Accident Investigation Report		
Joint Exhibit 6	Tr. 3741	Tr. 3745
18 September 1992 F-16 Accident Investigation		
Report		
Joint Exhibit 7	Tr. 3741	Tr. 3745
2 February 1994 F-16 Accident Investigation		
Report		
Joint Exhibit 8	Tr. 3741	Tr. 3745
20 January 1996 F-16 Accident Investigation		
Report		
Joint Exhibit 9	Tr. 3741	Tr. 3745
7 June 1996 Joint F-16 Accident Investigation		
Report		
Joint Exhibit 10	Tr. 3741	Tr. 3745
11 July 1996 F-16 Accident Investigation Report		
Joint Exhibit 11	Tr. 3741	Tr. 3745
21 November 1996 F-16 Accident Investigation		
Report		
Joint Exhibit 12	Tr. 3741	Tr. 3745
15 December 1998 F-16		
Accident Investigation Report		
Joint Exhibit 13	Tr. 3741	Tr. 3745
7 January 1999 F-16 Accident Investigation		
Report		
Joint Exhibit 14	Tr. 3741	Tr. 3745
12 July 1999 F-16 Aircraft Accident Investigation		
Report		
Joint Exhibit 15	Tr. 3741	Tr. 3745
31 August 2000 F-16 Accident Investigation		
Report		

Document # 1271884 v.1