بالمتعمد مالية بالمحمولة

IN THE MATTER OF PRIVATE FUEL STORAGE - DAVID C. SCHEN

·	PAGE 1		1 1	PAGE 2	_
1		es of America Atory commission	1 2	APPEARANCES:	2
3	ROCHERN ADDE	Serve Strate UVAVI	3	FOR THE INTERVENOR:	
4	In the Matter of) Docket No. 72-22	1 4	fred G. Nelson, Esg.	
5	PRIVATE FUEL STORAGE) ASLBP NO. 97-732-02-ISFSI		ASSISTANT ATTORNEY GENERAL	
2	L.L.C.	5		Office of the Attorney General 160 East 300 South, 5th Floor	
6)	6	Salt Lake City, UT 84114-0873	
-	(Private Fuel Storage) DEPOSITION OF:		FOR THE APPLICANT:	
7	Facility)	DAVID C. SCHEN	•	Paul A. Gaukler, Esq. Ernest Blake, Esg.	
8			9	SHAW, PITTMAN, POITS & TROWBRIDGE	
9				Attorneys at Law	
10		DAVID C. SCHEN, a witness in	10	2300 N Street, N.W.	
11 12	the above-entitled cause, ta SHINDIRLING Registered Prof	Sessional Reporter and Notary	11	Washington, DC 20037-1128	
13	Public in and for the State		1 12	INDEX	
14	of PARSONS, BEHLE & LATIMER,			witness page	
15 16	Salt Lake City, Utah, on the	: 25th day of May, 1996,	13	DAVID C. SCHEN	
10	commencing at 9:20 a.m.		14	DAVID C. SCREW	
18				Examination by Mr. Gaukler 3	
19			15	Examination by Mr. Nelson 81	
20 21			16	Further Examination by Mr. Gaukler . 81	
22			17	EXHIBITS	
23			18	EXHIBIT NO. PAGE	
24 25			19	I Resume of David C. Schen 5 2 Memo Dalton/Schen. 5-25-97. Subject:	
25			20	2 Memo Dalton/Schen, 5-25-97, Subject: Skull Valley Fire Frequency	
			21	Information 10	
			22	3 Map 15	
			23 24	4 Article, Prescribed Burning 34 5 Map 44	
			25	6 Declaration, David C. Schen, 4-22-99 56	
, 1	PAGE 3			PAGE 4	
	FAGE 3	3			5
		5			
1	PROCEE	DINGS	1	natural resource programs. That includes program	
2	DAVID C.		2	coordinators for about seven major programs.	
3	called as a witness, for and		1 3	Q. And what programs are those?	
4	being first duly sworn, was e		4	A. Those include Landowner Assistance Programs,	
5	follows:		5	Forest Health, Urban Forestry, the Lone Peak	
6	EXAMIN	ATTON	6	Conservation Center.	
7	BY MR. GAUKLER:			Q. What is it?	
8		ate your full name for the	l a	A. There is it?	
9	record?	The lost rare nome for the	a	Q. What is it.	
10	A. David C. Schen.		10	A. It's comprised of trees and shrub seedling	
10		Paul Gaukler. This morning	11	nurseries and fire fighting resources. Our Fire	
		_	12	Nanagement Program and our Mineral Leasing Program.	
12	The going to be seline some a				
	I'm going to be asking some of understand the State's position			0 So fire management is one of the coron	
13	understand the State's positi	on on various matters which	13	Q. So fire management is one of the seven	
13 14	understand the State's positi I understand you are involved	ion on various matters which i. I'll try to make my	13 14	programs that you coordinate?	
13 14 15	understand the State's positi I understand you are involved questions as clear as possibl	ion on various matters which i. I'll try to make my le, but if at any time you	13 14 15	programs that you coordinate? A. That's one of the programs within my work	
13 14 15 16	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question	ion on various matters which i. I'll try to make my le, but if at any time you	13 14 15 16	programs that you coordinate? A. That's one of the programs within my work unit.	•
13 14 15 16 17	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it?	ion on various matters which i. I'll try to make my le, but if at any time you	13 14 15 16 17	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management	t
13 14 15 16 17 18	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will.	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to	13 14 15 16 17 18	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program.	t
13 14 15 16 17 18 19	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will. Q. What is your current	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer?	13 14 15 16 17 18 19	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through	t
13 14 15 16 17 18 19 20	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will. Q. What is your curren A. I'm employed by th	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer? a State of Utah, Division of	13 14 15 16 17 18 19 20	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through law. State law charges the Division with protecting	
13 14 15 16 17 18 19 20 21	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will. Q. What is your curren A. I'm employed by th Forestry, Fire and State Law	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer? as State of Utah, Division of mds. It's one of seven	13 14 15 16 17 18 19 20 21	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through law. State law charges the Division with protecting about 15 million acres of State and private lands. The	
13 14 15 16 17 18 19 20 21 22	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will. Q. What is your curren A. I'm employed by th Forestry, Fire and State Lan divisions within the Departs	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer? as State of Utah, Division of mats. It's one of seven ment of Matural Resources.	13 14 15 16 17 18 19 20 21 22	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through law. State law charges the Division with protecting about 15 million acres of State and private lands. The responsibility on private lands is shared with the	
13 14 15 16 17 18 19 20 21 22 23	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I vill. Q. What is your curren A. I'm employed by th Forestry, Fire and State Lan divisions within the Depart Q. And what are your	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer? as State of Utah, Division of mds. It's one of seven	13 14 15 16 17 18 19 20 21 22 23	 programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through law. State law charges the Division with protecting about 15 million acres of State and private lands. The responsibility on private lands is shared with the counties. 	
20 21 22	understand the State's positi I understand you are involved questions as clear as possibl don't understand my question clarify it? A. I will. Q. What is your curren A. I'm employed by th Forestry, Fire and State Lan divisions within the Departs Q. And what are your manager?	ion on various matters which i. I'll try to make my le, but if at any time you will you please ask me to nt position and employer? as State of Utah, Division of mats. It's one of seven ment of Matural Resources.	13 14 15 16 17 18 19 20 21 22	programs that you coordinate? A. That's one of the programs within my work unit. Q. And please describe for me the Fire Management Program. A. Our responsibilities are arrived at through law. State law charges the Division with protecting about 15 million acres of State and private lands. The responsibility on private lands is shared with the	

ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441 LANETTE SHINDURLING, CSR, RPR SUTHORLITHR

IN THE MATTER OF PRIVATE FUEL STORAGE - DAVID C. SCHEN

		PAGE 25		PAGE 26
		25		26
	1	this.	1	volatilization of radioactive materials come from?
	2	Q. So that still would be your statement of your	2	A. That's a good question. I don't have the
~	3	opinion today, that the wildfires would not present any	3	answer to that.
	4	specific problem with respect to the spent fuel itself	4	Q. It would have to come from the spent fuel rods
	5	stored in the sealed canisters?	5	sealed inside the canisters would it not?
	6	A. I don't feel I have adequate information to	6	A. It would seen that it would have to, yes.
	1	respond either way to that, to confirm or deny that	7	Q. You go on to say here that, the last paragraph
	8	statement at this point.	8	on page 2, you say that "Fuel breaks would provide an
	9	Q. But you haven't changed your opinion in terms	9	effective protective barrier to the principal storage
	10	of what you stated here since May 1997, right?	10	site." I take it you believe that to be a true and
•	11	A. Well, that was my reaction at that time.	11	correct statement at that time?
	12	Q. Is that still your reaction today?	12	A. Ido.
	13	MR, NELSON: Objection, it's been asked and	13	Q. And you believe that to be a true and correct
	14	answered. You can go ahead and respond.	14	statement at this time?
	15	THE WITNESS: Pardon?	15	A. I do believe that fuel breaks can provide a
	16	MR. NELSON: You can go ahead and respond if	16	barrier that can be used effectively to protect a site.
:	17	you want to.	17	They don't do so unto themselves.
	18	THE WITNESS: It's still my opinion that the	18	What do you mean, they don't do so unto
	19	two greatest risks to the fire fighters would be the	19	themselves?
	20	wildland fire itself and the potential for some exposure	20	 Fire can cross fuel breaks from wood burning
	21	to radioactive materials in some form, but I do not feel	21	embers. So they provide a degree of protection, but not
	22	that I have the technical expertise to say whether or	22	full protection.
	23	not the method of storage would minimize the risk of	23	Q. But if you had a fuel break around the entire
	24	exposure to radioactive materials.	24	area of interest then that would provide a protection
	25	Q. (BY MR. GAUKLER) Where would the	25	for that area of interest, correct?
	20	A. Int un' quarteri anere aonto fue		tor thet area of filteresty correct:
		PAGE 27	▋└╌ ╻┌──	PAGE 28
2 ¹				
a ⁷¹		PAGE 27 27		PAGE 28 28
		PAGE 27 27	1 2	PAGE 28
e ^r		PAGE 27 27 A. It would provide protection, but not guarantee	1 2 3	PAGE 28 28 28 28
e.	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense?	1 2 3 4	PAGE 28 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction.
.*	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense?	1 2 3 4 5	PAGE 28 28 28 28 28 28 28 28 28 28 28
19	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense? A. In the sense that it would not preclude	1 2 3 4 5 6	PAGE 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had
	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense? A. In the sense that it would not preclude burning material from being carried by currents of air	1 2 3 4 5 6 7	PAGE 28
	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense? A. In the sense that it would not preclude burning material from being carried by currents of air across the barrier and igniting materials on the other	1 2 3 4 5 6 7 8	PAGE 28
.**	1 2	PAGE 27 27 A. It would provide protection, but not guarantee that a fire wouldn't cross that barrier. Q. Cross the barrier in what sense? A. In the sense that it would not preclude burning material from being carried by currents of air across the barrier and igniting materials on the other side of the barrier.	1 2 3 4 5 6 7 8 9	PAGE 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those
	1 2 3 4 5 6 7 8	 PAGE 27	1 2 3 4 5 6 7 8 9 10	PAGE 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance.
	1 2 3 4 5 6 7 8 9	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11	PAGE 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those
2 ⁴	1 2 3 4 5 6 7 8 9 10	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 11	PAGE 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located?
2 ⁴	1 2 3 4 5 6 7 8 9 10 11	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13	PAGE 28 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located? A. That area at that time was a three county area
	1 2 3 4 5 6 7 8 9 10 11 12	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14	PAGE 28
	1 3 4 5 6 7 8 9 10 11 12 13 14 15	PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	PAGE 28
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16	PAGE 28
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	PAGE 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covered that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located? A. That area at that time was a three county area comprising Cache, Rich and Box Elder counties. Q. If you look at Exhibit 3, are they shown anywhere in Exhibit 3? A. No, they're not.
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 PAGE 28
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	PAGE 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located? A. That area at that time was a three county area comprising Cache, Rich and Box Elder counties. Q. If you look at Exhibit 3, are they shown anywhere in Exhibit 3? A. Ho, they're not. Q. Where would they be in reference to the map on Exhibit 3?
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PAGE 28 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located? A. That area at that time was a three county area comprising Cache, Rich and Box Elder counties. Q. If you look at Exhibit 3, are they shown anywhere in Exhibit 3? A. No, they're not. Q. Where would they be in reference to the map on Exhibit 3? A. Horth.
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	PAGE 2828 supervise volunteer fire fighters when they respond to fires under our jurisdiction. I also had the responsibility for negotiating agreements with the counties in my area. I had responsibilities for negotiating documents similar to the Annual Operating Plan we have talked about that covared that geographic area and had responsibility for assisting wardens on, you know, our staff on the fires within the area and providing management of those incidents when they needed assistance. Q. The Bear River area forest, where is that located? A. That area at that time was a three county area comprising Cache, Rich and Box Elder counties. Q. If you look at Exhibit 3, are they shown anywhere in Exhibit 3? A. No, they're not. Q. Where would they be in reference to the map on Exhibit 3? A. North. Q. So they would be north
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 PAGE 28
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 PAGE 28
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 PAGE 27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 PAGE 28

ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441 LANETTE SHINDURLING, CSR, RPR IN THE MATTER OF PRIVATE FUEL STORAGE - DAVID C. SCHEN

PAGE 30 PAGE 29 29 30 bordering Rich and Cache County you can find high vada, the northern end of Box Elder, Cache and Rich 1 aties border the State of Idabo, and the eastern end elevation alpine timber types. So there's a great or east side of Box Elder County borders Wyoming. variety of plant communities and fuels. 3 Going to your next position, northern regional 0. Q. So it's north--4 It's porth, north and northeast of this manager, did you have any responsibilities with respect 5 5 λ. to the fire fighting? 6 location. 6 7 A. My responsibilities included -- in that Q. North to northeast of this location, okay. 7 position I had three areas, administrative areas within When you say "of this location" you're referring to--8 8 A. Oh, yeah. Look down, do you see the little my region. That included basically all the counties in 9 9 the northern half of the state from- if you look at 10 10 state map in this quadrant? 11 this little map on Exhibit 3, the south end of Tocele Q. Yes. 11 12 County, in a line generally going from Colorado to If you just take a look at those three 12 λ. Nevada, from the south end of Tooele County morth, we northern counties, those are Box Rider, Cache and Rich 13 13 14 had offices in Salt Lake, Logan and Vernal, and the area going from wast to east. 14 15 foresters in those three offices had responsibilities Q. Okay. The three counties going across the 15 northern part of Utah. I see. What type of vegetations 16 such as I described I had in my position as Bear River 16 area forester. So they were responsible for those 17 in those areas, primarily? 17 18 day-to-day things, activities. I had responsibility for A. It varies. The western part of Box Elder 18 assisting them negotiate agreements, primarily the County is very similar to Tooele County's vegetation 19 19 Annual Operating Plans, but my responsibilities were plant communities. And in Rich, the eastern side of 20 20 associated with overall management of that program for 21 Rich County is high desert fuels, but sagebrush, 21 that geographic area as well as other programs that the grasslands, pinion, juniper, woodland, but moister 22 22 23 division administered at the time. sites. And in the mountains bordering -- wall, in the 23 24 Q. As opposed to actually being involved in high mogntain areas of Box Elder County as well as the 24 25 fighting or managing the fighting of particular fires? Wellsville range and Bear River Mountain range and PAGE 32 GE 31 32 31 purpose with respect to wildfires for doing that? That's correct. 1 λ. 1 A. The purpose, typically we were doing that as Then your position from 1982 to November 1995 2 2 ٥. assistance to private landowners who were involved in as forest stewardship coordinator? 3 3 A. My direct responsibilities during that period ranching and raising livestock and their objectives 4 4 included increasing the volume of forage suitable for of time did not include administration of aspects of the 5 5 their livestock on that property and in some cases it Fire Management Program as administered by the State. 6 also included restoring the yield of water and streams Q. Have you ever conducted experiments or test 7 7 and springs that was a side benefit. But primarily they burns with respect to wildfires? 8 8 were targeting, you know, changing the plant communities 9 A. I have conducted prescribed fires. 9 to include more grasses. 10 And what are prescribed fires? 10 Q. Q. Have you ever conducted test burns to measure Those are fires that we intentionally set to 11 11 A. temperatures of wildfires, for example? achieve some management, land management objective. And 12 12 A. No. I have set fires as part of a wildland fire suppression 13 13 Bave you ever conducted test burns to operation to control wildfires as a tool to control the 14 14 different fuel loadings to identify the intensity of 15 spread of the wildfire itself. I wouldn't necessarily 15 wildfires with different type of fuel loadings? refer to those as experiments. Sometimes they worked, 16 16 17 **λ.** Νο. 17 though, sometimes they didn't. Do you believe that wildfires pose a So basically the objective of the prescribed 18 0. 18 Q. significant hazard to the Private Fuel Storage facility 19 burning was to kind of control the vegetation in an area 19 20 and the spent fuel storage area? for some particular reason? 20 A. I believe that wildfires do present a hazard 21 A. To modify the plant community. Typically it 21 to the proposed facility. 22 was to reduce the sagebrush and the pinion, juniper 22 And how much of a hazard do you see it component and allow native grass and shrub species to 23 Q. 24 presenting? tover. Based on my knowledge, I do believe that 25 Why would you want to do that? Is there any λ. ٥.

ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441 LANETTE SHINDURLING, CSR, RPR