_ PAGE 1	PAGE 2
1 UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION 2 NUCLEAR REGULATORY COMMISSION 3 In the Matter of JASLEP No. 97-732-02-ISTSI 5 PRIVATE FUEL STORAGE L.L.C. 6 JOEKET No. 97-732-02-ISTSI 6 JOHN LOUIS NATTHEWS 7 Facility) JOHN LOUIS MATTHEWS 9	PAGE 2 PAGE 2 2 1 APPEARANCES: 2 3 FOR THE INTERVENCE: 4 6 Fred G. Melson, Esq. 160 East 300 South, 5th Floor 6 Salt Lake City, UT 64114-0873 7 FOR THE APPLICANT: 9 9 Paul A. Gaukler, Esq. 9 Francest Blake, Esq. 9 SHAM, PITTMAN, POTTS & TROWBRIDGE 10 2300 N Street, N.M. 11 12 12 I N D E X 14 WITNESS 15 JOHN LOUIS MATTHENS 16 Examination by Mr. Gaukler 17 IS 18 E X H I B I T S 19 EXHIBIT NO. 11 2 12 2 Safety Analysis Report 11 2 12 3 Accidant Investigation Board Report
25 PAGE 3 3 1 FROCEEDINGS 2 JOHN LOUIS MATTHENS, 3 called as a witness, for and on behalf of the Applicant, 4 being first duly sworn, was examined and testified as 5 EXAMINATION 7 Nould you please state your full name for the 9 record? 10 A. John Lewis Matthews. 11 Q. General Matthews. 12 Some questions this morning. I'll try to make my 13 questions as clear as possible. 14 A. Oksy. 15 Q. If at any point you don't understand a 16 question of mine will you please ask me to clarify it? 17 A. Sure. 18 Q. What is your present position and employer? 19 A. Well, I'm a military advisor to the Governor 20 So what portion of your time is allocated to 21 A. About 50 percent. 22 Q. Roughly 50 percent?	PAGE 4 PAGE 4 A. Tes. Q. And the other 50 percent is the consulting for the two contractors? A. Tes. Less than that. I don't I'm semi retired, but I haven't been able to figure out just how. to get it done yet. I'm not as smart as I should be. Q. So you and up doing more than you want to do sometimes? A. Yes, sometimes. Q. What's your responsibility as military advisor it to the Governor? A. Well, primarily I deal with the relationship between the Governor's Office and the military activities in Utah and give him advice on potential impact of military activities, watch legislation. G. What is BRAC? A. Well, of course, the impact of closed A. Well, of course, the impact of closed facilities in any state, you know, has economic impact. So that's our primery concers. Q. How long have you been military advisor to the Governor? A. Since October of '94.

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5	6
Q. And what was your position prior to October	1 A. Yes.
3 A. I was the Adjutant General of Utah which is	 Q. How long were you Commander for the Air National Guard?
3 A. I was the Adjutant General of Utah which is 4 Commander of the National Guard. I had that for 12	4 A. For about three years.
	5 Q. And what were your responsibilities or
5 years. 5 0. And what were your duties as Commander of the	6 position prior to the Air National Guard?
6 2. And what were your duties as Commander of the 7 National Guard for Stah?	7 A. Well, then I was a part-time guardinan and an
A. Well, commanding the National Guard. The	8 educator.
g Mational Guard in Utah has a variety of activities, both	9 Q. And you were an educator where?
10 Army and Air National Guard, which includes attack	10 A. At Simpview High School. I was the principal
1 helicopter troop, a special forces troop. It has	11 of Timpview Righ School and principal of Dison Junior
2 engineers and artillary man. It has in the Air Mational	12 High Schoel, both in Provo.
3 Guard, air refuelers and the 299th Range Control	13 Q. How long were you in those positions?
4 Squadrom which handles all of the air traffic over the	14 A. I was an educator for about 17 years which
15 Utah Test & Training Range. Electronic installation	15 included about, let's see, four years as a teacher and
16 squadron, air combat support squadron and a large	16 then the rest as an administrator.
17 linguist unit.	17 Q. You say you were a part-time guardsman at that
18 Q. A large what unit?	18 time?
19 A. Linguist.	19 A. Yes.
20 Q. What were your responsibilities prior to	20 Q. And what did you do as a part-time guardsman?
21 becoming the General Commander of the Utah National	21 A. Fly airplanes, have fun. I never could
22 Guard?	22 believe they paid us to do that.
23 A. I commanded the Air National Guard.	23 Q. That means you loved it.
24 Q. How long were you a Commander of the that	24 A. That's zight.
25 was the Utah Air National Guard?	25 Q. What type of airplanes did you fly as far as
AGE 7	PAGE 8
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1 the Air National Guard? You were a guardsman in the Air	1 know, graduated from college. I went to BTU and had I
2 National Guard at that time?	2 was in the MOPC, and that's how I got my commission and
3 A. Yas. I started out in F-86s and F-100s and	3 majored in geology. Them I went on active duty after I
4 then we went into transports, C-97, EC-97, C-124s,	4 graduated.
5 KC-135s. I also had a stint as an instructor for United	S Q. And how long were you on active duty?
5 Airlines, instructor pilot. And before that I was on	6 A. Four years, as I said.
7 active duty in the Air Force.	7 Q. That's when you were the instructor pilot?
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IN THE MATTER OF PRIVATE FUEL STORAGE - JOHN LOUIS MATTHEWS PAGE 13 . _ PAGE 14 . 13 14 Are there airplanes involved other than the Usually the heavier or longer range firing occurs to the 1 ٥. west out near Granite Peak as the impact area. Granite Apache helicopters? 2 A. Oh, yes, F-16s and F-18s. 3 Peak is on the west end of your map. Q. And that has been in recent years they have 1 4 Q. So the impact area is Granite Peak, for the longer range, this would be for the longer range rockets 5 had that type of training exercise? 5 6 6 λ. Tes. and artillery? 7 A. Normally, 1 0. Any other training exercises that you are 8 aware of that are conducted on Dugway? Q. Where do they fire from? 8 A. Well, of course Duqway is under the Utah Test A. There's a number of firing points. The 155s 3 Q & Training Range so there's a lot of activities going on 10 10 commonly fire from an area between Ditto and English Village to the south of Stark Road and they fire to the 11 at the Utah Test & Training Range. But as far as Dugway 11 itself is concerned, the only other exercise that I'm 12 southeast. And in addition, they have fired from- if 12 aware of were in the past where there was ranger 13 you look on your map and it says Michael Army Airfield, 13 training at Dugway, but that no longer occurs, as far as 14 where the word "airfield" is located, they have fired 14 I know. Or if it does, it occurs on an irregular basis. from that area up porth, northwest towards Wig Mountain. 15 15 So those have been the two primary areas for regular 16 16 Q. The first category you referred to is 17 artillery firing? 17 artillery firing. A. Tes. 18 Q. So they fire away from English Village? 18 A. Yes. Their firing points are usually to the 19 19 Q. What type of artillery is fired, what type of west of English Village morth and south of Stark Road. 20 20 shells, do you know? 0. Do you believe that the artillery firing of A. Well, they've fired everything from 155 21 21 22 salf-propelled to rockets. They've even fired the -- I'm these rockets and 155s and other weapons would pose any 22 trying to think of the name of the missile that the Army 23 hazard to the Private Fuel Storage facility? 23 24 A. I have no way of knowing that for sure. I uses. I'll think of it in a minute, I'll give you the 24 know-- and it was AINC, is what I was trying to remember 25 name in a minute, but I will. So it's a wide variety. 25 _ PAGE 15 _ ____ PAGE 16 __ 16 15 that the Army uses. The only one that I would wonder 1 A. It is -- if you look at what is called Simpson 1 Buttes and then go east from Simpson Buttes, Simpson 2 about would be the firing northwest into the Wig 2 Springs is just off Dugway to the east. 3 3 Mountain area. Q. So one shell landed there, that you're aware 4 Q. Are you familiar with the safety procedures 4 that are used by the Army when firing these weapons? 5 of? 5 A. Mear Simpson springs. Actually, there was 6 λ. Yes. 6 dabris and some shrappel that entered the campground, 7 0. And what are those safety procedures? 1 A. Well, they have a process in which they 8 was my understanding. ŝ Q. Are you aware of any other incident of any 9 calculate the target. Then they have to calculate the 9 impact off the Dugway Proving Ground? 10 amount of explosives, the charge that they put with the 10 A. I am not. artillary shell. And then they -- and they identify a 11 11 Q. You referred to Apache helicopter training. 12 safety zone around the outside of the impact area. And 12 normally before they give a fire order they review the 13 Where does that take place? 13 A. Hell, it takes place in a variety of areas in safety area to make sure that the impact is going to 14 14 the west desert. Usually they try to-- on a yearly occur within the safety area, and hopefully it does. It 15 15 basis they adjust where they're going to train. But 16 16 doesn't always, but hopefully it does. when they're in joint training, in the recent past they 17 0. Are you aware of whether there's ever been an 17 have operated in the impact area down near the Simpson 18 artillery shell or other impacts off the Dugway training 18

19 range? 20

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- A. Yas, I am.
- Q. And what incident was that?
- A. I know of at least one incident in which an impact occurred very near the Simpson Springs Campground.
 - Q. And where is that located?

19 Buttes. I have not seen the operations orders for the activity this year so I don't know exactly where they're 21 planning to train and where they're planning to fire. Q. You said the west desert area. That's off to the west of this map?

A. The west desart area, in my mind, includes Dugway and the Utah Test & Training area, basically. So 25

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			PAGE 18
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1	it's a larger area than just Dugway.	1	Q. And if they were down below Stark Road they
2	Q. What direction do they fire? What weapons do	2	would fire to the south?
3	the Apache helicopters fire in their testing?	3	A. Uh-huh (affirmative).
4	A. The aircraft is equipped with .30 millimeter	4	Q. What are the range of the weapons that they
5	cannon, it has 2.75 rockets and it fires the Wellfire	5	fire in terms of miles, do you know?
6	missile.	6	A. They don't deal in miles, they deal in
7	Q. And do you know in what directions they fire	1	kilometers.
8	those weapons?	B	Q. In kilometers, then. A. I'm not sure I can give you the maximum range
9	A. It would be hard for me to say to exclude	9	
10	directions, but I would say to you that they fire they	10	of the Hellfire, but I would think that it would be in
11	often fire in the Lakeside range, which is in the north	11	the range of three to four miles.
12	area of the Utah Test & Training Range across I-80 to	12	Q. And that would be the longest range of the
13	the north, okay? In cases where they have been involved	13	weapons they fire? A. Tes. But I don't want my testimony to say
14	in joint exercises they also have fized down in this	14	that is the maximum range because I don't know that.
15	portion of Dugway, either up here or down here.	15	Q. But the Hellfire would be the one with the
16	Q. You're pointing to the-	16 17	Q. But the metrice would be the one with the longest range?
17	A. Cadar Mountains and the Simpson Buttes area.	18	A. It would be, yes.
18	Q. And do you know which direction they fire	19	 Q. Going back to we were talking about the
19	from? Do they fire away from English Village?	20	artillery firing that the Army does in terms of 155 and
20	A. Yes. They would normally fire to the	21	rockets. What would be the range of those weapons, the
21	northwest if they were up here or to the south if they	22	shells that they fire?
22	were down here.	23	A. The rockets, you know, they can go 20 miles.
23	Q. So if they're in the Cedar Mountains area they	24	In fact, the 155 can reach out and touch you at about 15
24	would fire to the northwest?	25	miles.
25	λ. Tes.		
-	PAGE 19	,	PAGE 20
	19		20
1			the second share and the second share and
1	Q. Do you see any hazard posed to the Private		now they pack up and move and they rapidly set up and fire again. So basically, you know, it can be a number
2		2	of different locations within the exercise period and
3	activities conducted at Dugway?	3	over the areas that I have described. Usually they
4			don't try to go outside the areas that have been
5	of an inaccurate firing.		identified as suitable impact areas by Dugway.
6	Q. Are you aware of any inaccurate firings with		Q. And the suitable impact areas, again, are the
7	respect to the helicopter training at Dugway?		
8			onae hu Cranita Mountain?
1	A. I'm not aware of any specific incidents of	8	ones by Granite Mountain? Yes. That's one. There's some down south, as
9	either Bellfires or rockets that have impacted other	9	A. Yes. That's one. There's some down south, as
1	either Hellfires or rockets that have impacted other) than in the impact areas. However, I don't know of all	10	A. Yes. That's one. There's some down south, as I say, by Simpson Buttes and there's others up north by
9 1(1)	either Hellfires or rockets that have impacted other) than in the impact areas. However, I don't know of all 1 their activities, but I'm not aware of any specific	10 11	A. Yes. That's one. There's some down south, as I say, by Simpson Buttas and there's others up north by Rig Mountain.
10 11 11	either Hellfires or rockets that have impacted other than in the impact areas. However, I don't know of all their activities, but I'm not aware of any specific accidents.	10 11 12	 A. Yes. That's one. There's some down south, as I say, by Simpson Buttas and there's others up north by Rig Mountain. Q. So all these training exercises fire towards
9 10 11 11 11	 either Hellfires or rockets that have impacted other than in the impact areas. However, I don't know of all their activities, but I'm not aware of any specific accidents. Q. You referred to training exercises in recent 	10 11 12 13	 A. Yes. That's one. There's some down south, as I say, by Simpson Buttes and there's others up north by Wig Mountain. Q. So all these training exercises fire towards one of the impact areas? A. Yes.
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I.	Q. But practice bomb you mean what? A. Well, they have a small charge. You can tell		Q. Do you see these joint exercises posing any hazard to the Private Fuel Storage facility?
1	where the boods hit, but you don't blow a lot of stuff	1	A. Only if there were stray weapons.
4			Q. Are you aware of any impact outside of the
5	up. Q. So basically it's an inert bomb with a small	5	impact areas with respect to these exercises?
6	charge to identify where the bomb hits?	6	A. I've described one to you.
17	A. Right.	7	Q. That's the one that was down by Simpson Butte?
18	Q. That poses no hazard?	8	A. Yes.
9	A. No. And I say that's not exclusively the	9	Q. Again, I take it on these joint exercises,
10	case, but in many cases it is.	10	they follow the same procedures that you talked about
11	Q. And when they do use light hombs, do you know	11	before in terms of safety procedures?
12	what type of bombs they use?	12	A. Oh, yes, always.
13	A. I'm not sure I could answer that.	13	Q. Always?
14	Q. But again, the bombs would have one of these	14	A. Uh-huh, absolutely.
15	impact areas we've described?	15	Q. Are you familiar with activities regarding
16	A. Uh-hub (affirmative). They would be, yeah, in	15	Michael Army Airfield?
17	all likelihood. Of course, they bonb other areas, as	17 18	A. Yes. 0. And what's your knowledge with respect to
18	you know, in the Utah Test & Training Range.	19	activities at Michael Army Airfield? What happens
19	Q. Right. We'll get to that. A. So you have these fighters coming in and	20	there?
20	A. So you have these fighters coming in and participating in this and also doing some additional	21	A. Hell, one of the things that happens is that
21 22	training while they're at it.	22	it's used as a recovery base for aircraft on the Utah
23	Q. At the Utah Test & Training Range up to the	23	Test & Training Range that have hung weapons. It is
24	north?	24	used as an aircraft delivery base, large aircraft
25	A. Tes.	25	sometimes land there with cargo. In some of these
			77 74
1.	PAGE 23		PAGE 2424
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12	23 exercises it's actually used as an minfield for deployed	12	. 24
1 2 3	23 exercises it's actually used as an airfield for deployed military units that come out. Last year, for instance,	1 2 3	24 A. I think I provided basically the same
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 23 exercises it's actually used as an airfield for deployed military units that come out. Last year, for instance, I believe an Air National Guard unit from Niegara Falls, New York deployed to Dugway and operated out of Michaels with F-16s, and helicopters use it somatimes as a deployment situation. Q. Do you know approximately how many flights go out of Michaels Army Airfield? A. I think it's very irregular. I wouldn't have a number for you. I mean, I don't think there's a consistant number that you could project. Q. You met with a Dr. Marvin Resnikoff, an expert for the State with respect to this proceeding. Do you recall that? A. Marvin Q. An expert for the State of Utah with respect to this proceeding. Do you recall meeting with him? A. I probably did. I was in a meeting with a lot of people. I don't think I was at one with him by himself. Q. Do you remember providing any information to anybody regarding flights in and out of Dugway, Michael Army Airfield at Dugway? 	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 A. I think I provided basically the same information I provided to you. Q. Just as you've told me now? A. Yes. Q. Do you believe that flights in and cut of Dugway, Michael Army Airfield at Dugway would pose any hazard to the Private Puel Storage facility? A. Landing and taking off from Dugway, I would be surprised if it caused any basard. I would think that any bazard would be from overflight rather than specific landing or takeoffs. Q. Have you done any evaluation of the potential hazard of overflights? A. Save I done an evaluation? Q. You referred to Michael Army Airfield being the place where planes on the Utah Test & Training Range land with hung bombs? A. They could land. Q. Could land with hung bombs? A. Yeab. Q. Do you know how often that occurs? A. I think thare's something- I think that's

	PAGE 23	PAGE 26
	25	26
	I would just as soon refer to that. I don't have it in	1 those.
2	front of me. I'm sure it's more accurate than what I	2 Q. I'm going to show you a map of the Utah Test &
3	can give you.	3 Training Range. That has been marked as Deposition
4	Q. So you see the landing at Michael Army	4 Exhibit 3 to Bronson Hawley's deposition so we won't
5	Airfield of planes with hung bombs posing any hazard to	5 mark it again. On the map you'll see there's three
5	the Private Suel Storage facility?	6 areas outlined in blue, basically in the western part of
7	A. It depends on the flight path coming in. I	7 Utah. The bottom area outlined in blue that includes
8	don't know what the the landing at Michael in and of	8 Granite Feak, that's the Dugway Proving Ground, correct?
9	itself certainly wouldn't, in my opinion, pose any	9 A. Right.
10	basard.	10 Q. And then right above it there's another area
	Q. Do you know the flight path they take?	11 outlined in blue, and that's the south range of the Utah
12	A. No. And I wouldn't know that, you know, based	12 Test & Training Range?
13	on where the problem occurred.	13 A. Uh-huh (affirmative).
14	Q. Excuse me? Say that again. A. Based on where the problem occurred. Ton	14 Q. And then north of I-60 there is another area
16	know, if they had a where the bung ordnance occurred,	15 outlined in blue, and that's the north range of the Utah
17	where they were at the time, where they had to return to	16 Test & Training Range? 17 A. Tes.
18	get to their destination.	18 Q. First of all, where do the training exercises
19	Q. So you would need to know where the problem	19 take place on the south Utah Test & Training Range?
20	occurred to determine how they would get back to their	20 A. Are you talking about which training
21	destination?	21 exercise?
22	A. Tes, I would think so. Because the air	22 Q. That would involve hung bombs. Do you know?
23	traffic people would probably make a decision as to how	23 A. Well, you're looking at the ground
24	they go based on where they are. They have certain	24 representation of Duguay and Utah fast 6 Training Range.
25	corridors based on where they are and try to follow	25 Utah Test & Training Range is an air operation. Air
	PAGE 27	PAGE 28
	27	28
1		
1	operations fly throughout this area.	1 Q. And you wouldn't know that you had a hung bomb
2	Q. And by "this area"?	2 until you tried to release the bomb; isn't that correct?
3	A. They release - well, it's the exterior outline	3 A. Tes. But if you're making the case, then you
1	in blue that you have here on the map.	4 have to recognize that there is such a thing as bushn 5 error and in the case of human error sometimes switches
S c	 Q. You say blue and I think it's probably green. A. Whataver. Aircraft operate in this total 	6 are switched when they're not supposed to be switched.
1	area. They release ordnance in the areas that are	7 So I would suggest that your observation is correct
8	described, that you have just described where they can	8 provided that the pilot operates in accordance with the
9	impact the ground with their ordnance and carry their	9 standard operating procedures.
10	ordnance throughout this total area. They just can't	10 Q. Are you aware of any instance where weapon
11		
	release it except in those specific areas.	11 systems have been armed prior to entry into the area
12	release it except in those specific areas.Q. Isn't it true that if they're flying to the	11 systems have been armed prior to entry into the area 12 where the weapons are to be released?
12 13	<pre>release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the</pre>	 systems have been armed prior to entry into the area where the weapons are to be released? A. In the Air Force?
12 13 14	release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed?	 systems have been armed prior to entry into the area where the weapons are to be released? A. In the Air Force? Q. In respect to the Utah Test & Training Range.
12 13 14 15	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Hopefully. That's the plan. 	 systems have been armed prior to entry into the area where the weapons are to be released? A. In the Air Force? Q. In respect to the Utah Test & Training Range. A. I have no information about that.
12 13 14 15 16	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ropefully. That's the plan. Q. That's your understanding of what the standard 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah fest & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have
12 13 14 15 16 17	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ropefully. That's the plan. Q. That's your understanding of what the standard procedures are? 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past?
12 13 14 15 16 17 18	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Boperally. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not.
12 13 14 15 16 17 18 19	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ecperally. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over
12 13 14 15 16 17 18 19 20	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ropefully. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. Q. Standard Operating procedure? 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over 20 the Wildcat Hountain area, that's the area between the
12 13 14 15 16 17 18 19 20 21	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ropefully. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. Q. Standard Operating procedure? A. Tes. 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over
12 13 14 15 16 17 18 19 20	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Ropefully. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. Q. Standard Operating procedure? 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over 10 the Wildcat Mountain area, that's the area between the 21 site for the south training range?
12 13 14 15 16 17 18 19 20 21 22	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Hopefully. That's the plan. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. Q. Standard Operating procedure? A. Yes. Q. And that they would only arm their systems 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over 20 the Wildcat Hountain area, that's the area between the 21 site for the south training range? 22 A. Un-buh (affirmative). 23 Q. Do you know what route they would take to 24 Michael Army Airfield?
12 13 14 15 16 17 18 19 20 21 22 23	 release it except in those specific areas. Q. Isn't it true that if they're flying to the areas where they're going to release the ordnance, the weapon systems are not armed? A. Hopefelly. That's the plsm. Q. That's your understanding of what the standard procedures are? A. That's right. That would be an SOP for the pilot. Q. Standard Operating procedure? A. Yes. Q. And that they would only arm their systems when they got to the area where they were going to 	 11 systems have been armed prior to entry into the area 12 where the weapons are to be released? 13 A. In the Air Force? 14 Q. In respect to the Utah Test & Training Range. 15 A. I have no information about that. 16 Q. Now, do you know where the hung bombs have 17 been identified in the past? 18 A. I do not. 19 Q. Assuming that a hung bomb were identified over 10 Wildcat Mountain area, that's the area between the 21 site for the south training range? 22 A. Un-bub (affirmative). 23 Q. Do you know what route they would take to

- PAGE 29	PAGE 30
29	30
wwhat on what activities are going on on the range at	1 Q. At Michael Army Airfield.
time. So the air traffic control organization	2 A. Ko.
has responsibility for the aircraft has to	3 Q. Are you familiar with chemical munitions that
maneuver him safely to a point where he can land at	4 may be at Dugway Proving Ground?
	5 A. I'm going to ask you to restate that question
5 Dugway.	6 because I think there's some they're not familiar with,
6 Q. Are there standard operating procedures for	7 so I'm certainly not familiar with them.
7 maneuvering him safely to that route?	
8 A. Yes. The preferred route would be a	
3 predetermined corridor.	9 familiarity is with respect to chemical munitions on
9 Q. And the corridor would be one to remain over	10 Dugway Proving Ground.
the Utah Test & Training Range at Dugway Proving Ground?	11 A. I know that, one, they do testing of systems
2 A. Tes, that's correct.	12 which have the capability of destroying chamical
3 Q. It would also be one to avoid any population	13 munitions, and they do those in specific facilities.
4 areas or where people are	14 And I know also that they have on previous occasions
5 A. Tes, that's also correct.	15 discovered wapons that were- have been there for some
	16 period of time that were not previously identified.
	17 Q. Now, when we talk about chemical munitions,
	18 what's the definition of a chemical munition?
the second	19 A. Well, my understanding of chemical- I guass
9 Dugway which has some capability to deal with that	20 it depends on who is defining it, but I think the
incident. If they can't deal with it, then they contact	
I Sill and Bill provides people who come out and take care	
22 of the situation.	
23 Q. Do you see any hazard to the Private Fuel	23 three.
24 Storage facility from the disposal of hung hombs?	24 Q. And you also would have to have an explosive
25 A. At Nichael?	25 to disperse the GB, VX or mustard, correct?
AGE 31	PAGE 3232
31	
	t subscholler an three three
1 A. Normally. Although there are munitions which	1 material on those items.
2 are described as bulk containers, which they have	2 Q. So they do testing of defensive weapons
3 containers which I assume they use to charge weapons	3 A. Well, yes.
6 rith.	 Q with respect to using the chemical agent in
5 Q. Now, isn't it true that with the chemical Test	5 testing?
5 Ban Treaty that the U.S. no longer manufactures or	6 A. Right.
7 deploys chemical munitions?	7 Q. Do you know where chemical munitions or
A. You're asking me to say whether the United	8 chemical agent are stored at Dugway?
9 States is doing that?	9 A. I'm not sure I know. I don't think I can say
	10 that I know where they're stored. I know where they do
10 Q. Yes. 11 A. And I'm going to say you need somebody smarter	11 some of the testing, but I'm not confortable in saying I
	12 know where they're stored.
12 than me to give you that answer.	13 0. Are you familiar with Igloo G?
13 Q. What's your understanding?	14 A. No. I have an idea where it is, but I don't
A. But you are correct about the fast Ban Treaty.	15 think I'm prepared to testify.
15 Q. What's your understanding of the Test Ban	The second ballions that the sports of chemical
16 Treaty in terms of chemical munitions?	
17 A. That we're not to produce them and that we	
13 also are in the process of destroying them.	
19 0. Do you know of any storage of chemical	
20 munitions that takes place at Dugway Proving Ground?	
21 A. Small amounts. Because one of their dissions	21 get into, you know, computer models of what happens if
22 is chemical defense and, therefore, what they have to do	22 the stuff got loose at this location, how far it would
is test clothing and other items to determine whether or	23 go, what's the provailing wind, all those kinds of
It they are effective against those verpons. The only	24 things. And I don't have any vey of knowing that for
in you can do that, you know, is to use some of the	25 sure because I don't know the exact amount they have
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	33	34
1	there and I don't know what the computer models would	1 Q. So what they use is a simulant that's 2 nontoxic?
i	indicate as it relates to that particular location. C. Has the State undertaken an evaluation of the	2 nontoxic? 3 A. That's right.
j ,		4 0. That has the same characteristics in terms
!	potential impacts of a potential release of chemical	5 of
	agent on, say, citizens at English Village or any other	6 A. Yes, for whatever they're testing for.
	citizens of the State of Utah? A. I think I'm not knowledgeable enough to say.	7 Q for whatever they're testing for. Do you
		B know of any safety procedures they take involving the
}	I'm sure they have, but I don't know that for a fact.	9 testing of chemical agent?
})	Q. You're not aware of any yourself?	10 A. I don't think I could relate their specific
	A. No.	11 safety procedures. I know that they have extensive
	Q. You said you're aware of the facilities where	12 safety procedures, but I'm not an expert on those
2	they test the chemical agent?	13 procedures.
3	A. Teah, at least two locations.	
l	Q. Where do they test chemical agent, then, as	
i	far as you're aware?	15 Dugway, correct? 16 A. In general terms, yes.
i	A. There's a location at Ditto, the Ditto area,	16 A. In general terms, yes. 17 Q. In general terms?
1	and of course there's another location at the Karr area.	18 A. Yes. I visited their facilities so I have
3	And other than those areas, I believe that the testing	19 some idea of how they operate, but
9	is all simulated.	
0	Q. By simulated you mean what?	20 Q. Do you believe that the operation of these 21 facilities pose any significant hazard to the Private
1	A. Nonlethal. Materials which tend to give the	22 Fuel Storage facility?
2	same characteristics as the agent itself.	23 A. I doa't believe so, no.
3	Q. So they use that outside to test?	
4	A. Yes. They're not allowed to do outside	24 Q. What's your understanding of testing with 25 respect to biological agents at Dugway Proving Ground?
	testing of lethal agents.	123 Tespect to prototicat adents at budway troving crosses.
25		
() 	PAGE 35	PAGE 36
- -	PAGE 35 35	PAGE 36 36
1	PAGE 35 35	PAGE 36
1 2	PAGE 35 35 A. What's my understanding? Q. Yes.	PAGE 36
1 2 3	PAGE 35 35 A. What's my understanding? Q. Yes. A. I'm not sure what you mean.	PAGE 36
1 2 3 4	PAGE 35 35 A. What's my understanding? Q. Yes. A. I'm not sure what you mean. Q. What do you know about testing of biological	PAGE 36 1 Q. Are you aware of the safety procedures that 2 they use in the Life Sciences Test Facility? 3 A. I'm aware in general terms. 4 Q. And what procedures are those?
12345	PAGE 35 35 A. What's my understanding? Q. Yes. A. I'm not sure what you mean. Q. What do you know about testing of biological agents at Dugway Proving Ground?	PAGE 36 1 Q. Are you aware of the safety procedures that 2 they use in the Life Sciences Test Facility? 3 A. I'm aware in general terms. 4 Q. And what procedures are those? 5 A. Well, they have specific areas within the Life
1 2 3 4	PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Tell, they have specific areas within the Life Science facility for a certain biological level of
1234567	PAGE 35	PAGE 36
12345678	PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Well, they have specific areas within the Life Science facility for a certain biological level of testing, level 2, level 3. Level 3 is the maximum that they're allowed to use at the Baker Lab it isn't Bake
123456789	 PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Well, they have specific areas within the Life Science facility for a certain biological level of testing, level 2, level 3. Level 3 is the maximum that they're allowed to use at the Baker Lab it isn't Bake Jab anymore, it's the Life Sciences facility. And so
12345678910	PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Tell, they have specific areas within the Life Science facility for a certain biological level of testing, level 2, level 3. Level 3 is the maximum that they're allowed to use at the Baker Lab it isn't Bake Jab anymore, it's the Life Sciences facility. And so they have to operate very specifically within those
1234567891011	 PAGE 35	PAGE 36
	PAGE 35	PAGE 36
	 PAGE 35	PAGE 36
1234567891011121314	 PAGE 35	PAGE 36
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15	 PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Well, they have specific areas within the Life Science facility for a certain biological level of testing, level 2, level 3. Level 3 is the maximum that they're allowed to use at the Baker Lab it isn't Bake Lab anymore, it's the Life Sciences facility. And so they have to operate very specifically within those parameters. When they prepare a test they go through a preparation in which they review it with everybody who is involved and make sure that they don't have any problems with the test before they do it. And beyond that, I don't know what the details are.
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16	 PAGE 35	PAGE 36 Q. Are you aware of the safety procedures that they use in the Life Sciences Test Facility? A. I'm aware in general terms. Q. And what procedures are those? A. Wall, they have specific areas within the Life Science facility for a certain biological level of testing, level 2, level 3. Level 3 is the maximum that they're allowed to use at the Baker Lab it isn't Bake Lab anymore, it's the Life Sciences facility. And so they have to operate very specifically within those parameters. When they prepare a test they go through a preparation in which they review it with everybody who is involved and make sure that they don't have any problems with the test before they do it. And beyond that, I don't know what the details are. Q. Do they have a negative pressure on the
1234567891011213141517	 PAGE 35	PAGE 36
12345678910112134151617	 PAGE 35	PAGE 36
	 PAGE 35	PAGE 36
12345678901123141567890	 PAGE 35	PAGE 36
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1 2 3 4 5 6 7 8 9 10 11 2 3 14 5 6 7 8 9 10 11 2 3 14 5 6 7 8 9 20 21 22 23	 PAGE 35	PAGE 36
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 19 20 21 22	 PAGE 35	PAGE 36

PAGE 37 _ PAGE 38 37 38 about the testing then that's raised at the time the 1 Q. And you said you were Chairman of the 1 Technical Review Committee? 2 proposed testing list is presented to us. A. Wh-huh (affirmative). 3 Q. And do you believe that the testing of And what's the purpose of the Technical Review biological agent at the Life Science Test Facility poses 4 0. ٨ 5 Committee? any hazard to the Private Fuel Storage facility? Sometime back when this lab was proposed it λ. I would hope not. I don't see any reason why 6 λ. 6 was proposed to be at level NL-4. There was 7 7 it would. 8 considerable concern about having a BL-4 lab in the 8 Q. Are you aware of the transportation of state and so the Army modified their plan finally and 9 chemical or biological agent to and from Dugway? 9 10 suggested that they would build a ML-3 lab. There was A. I'm aware that such a thing occurs, yes. 10 still some concern that maybe the Army would build -- say Q. And what's the basis of your knowledge? 11 11 it would build a BL-3 and really build a BL-4. And so 12 Well, it's kind of hard to test if you don't 12 λ. an agreement was reached in which a citizens group was get the stuff there to test. That's one of those easy 13 13 allowed to be privy to what they were doing to ensure 14 14 questions. That's one of the easy ones you gave me. that it was, in fact, a BL-3 lab. So basically that's 15 Q. But they have certain agents from before at 15 16 the antithesis of the Technical Review Committee. 16 Dugway from previous activities, correct? 17 A. Yes, they do. 17 Q. And that was the origin of the Technical 18 18 **Review Committee?** Q. But do you review the specific transportation 19 A. Uh-huh (affirmative). plans that --19 A. Do you know, we normally do not get involved 20 Q. And now you continue to review the operations 20 21 in the transportation. That's under the Department of there to ensure that they are BL-3? 21 A. Yes. Basically, you know, they give us a Transportation in the state and I don't really get 22 22 23 directly involved other than occasionally there is the report on their testing. We have people on the 23 24 transport of chamical agent from TOCDF, Tocele Chamical committee who are highly qualified in that area, I am 24 25 Demilitary Facility, to Dugway for the purpose of tests 25 certainly not one of them, and if they have concerns PAGE 40 _ PAGE 39 . 39 40 λ. Chemical agent? and we do get information on that in my role as Citizens 1 1 2 Advisory Commission for TOCDF. Yes 2 0. I'm not sure that I'm aware of any chemical 3 λ. And do you know what route that transportation 3 0. 4 agent. takes? 4 Going down Skull Valley Road? A. It varies. I mean, it depends on what they're 5 Q. 5 Tes. There could be biological agents, but transporting and where they take it, but they usually--6 λ. 6 in these cases -- and remember, these are only in a small I'm not sure the makeup. 7 1 Q. You had referred to, I thought, the percentage of the cases, there's a lot of cases and A 3 cransportation from TOCDF to Dugway. Do you know if any 9 things I don't know about that go to Dugway, but once 3 of that transportation has gone down Skull Valley Road they transport they make a decision on the route. 10 10 Q. What routes are you aware that they've taken? 11 of chemical agent? 11 A. Oh, no, I doubt if that would be--A. Well, I know that they have transported 112 12 material down through Skull Valley Road to Dugway. I Q. That would not go down Skull Valley Road? 13 13 A. No. They would have to go all the way up to 14 know that they have transported from TOCDF south to 14 Tooele and back down Skull Valley that way. 15 Vernon and then over Lookout Pass to Dugway. I'm not 15 16 aware of transportation over Johnson's Pass, but I don't So from TOCDF, that would go through Lookout 16 Q. Pass and through Skull--17 know for sure. 17 A. Probably. But as I say, they determine that 18 Q. What transportation are you aware of down 118 on an individual basis. 19 19 Skull Valley Road? Do you know whether the transportation of A. Well, that's a primary road for transporting---20 Q. 20 21 chemical agent or biological agent to and from Dugway if you're going to take a truck of any size, that would 21 would pose a hazard to the Private Fuel Storage he the preferred route for Dugway because of the problem 22 22 23 facility? of curves, etc., on Johnson's Pass. 23 A. I do not know that. 24 Q. But what transportation of chemical agent are Q. You mentioned at one point earlier this 25 you specifically aware of down Skull Valley Road? ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441

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45 46 1. A lot of them Range, and they have a scoring facility and tower and 1 0. What were the nature of those training 2 you come in and attack a ground target and they can missions? 3 score your accuracy and then return to base. A. Well, some were fighter missions, some were 4 4 Q. What type of planes have you flown on these 5 refueling missions, some vere belicopter missions. So 5 training missions? probably all three. 6 A. I started out in old airplanes, F-86s, and 6 7 1 Q. What were the fighter missions that you flew? ended up flying a F-16 training mission most recently. 3 8 Q. How many E-16 training missions did you fly? Can you describe them to me generally? 9 3 A. Not very many, just a couple of those. A. Okay. Well, lat's see. Let me give you an Q. And---10 example of a fighter mission. You go out, you take off, 10 A. I have to tall you, off the record, that what you climb out, you go hit the tanker which is located on 11 11 amazed we was how similar the F-16 handles to an old 12 the range, fill up with fuel, attack the target complex 12 7-86. It's got a lot more power and it can do a lot 13 at Wildcat. You may go back up and refuel again with 13 more vertically to get out of trouble, but as far as the tanker, depending on how long a mission you want to 14 14 15 handling characteristics, very similar. I was amazed. 15 fly. Too may go into maneuver areas where you do But who cazes. On we go. 16 16 air-to-air activity, in which you use air-to-air tactics 17 with other aircraft. Sometimes there are aircraft there 17 Q. Did you fly missions to the south part of the 118 19 that are designed to be aggressors and you're designed Utah Test & Training Range? A. Yes, usually. The missions I flew came down 19 19 to attack them. You're vectored there by the air 20 traffic control people, vectored to the energy, and then 20 and entered near the Delta area, came in south of the 21 you go through your maneuvers for air-to-air activities. 21 area rande. You may fire air-to-ground at Ragle Range 22 Q. So you took off from Hill Air Force Base? 22 23 which is up here in the north area- as you look at the A. Yes. Heat south over Salt Lake and then down 23 and then entered the range approximately in this area, north area here, the jog, if you look directly north of 24 24 Grassy Mountains, in this area right here is Eagle 25 which I guess I'm pointing to an area near what would be 25 _ PAGE 47 __ PAGE 48 47 48 described as Sevier Lake and it's not identified on this 1 1 Yes, probably. A. map. And Delta is not identified on this map, but it's 2 And then you would come up and fly up to 2 Q. right here. Here's Fillmore. So if you come south from 3 Wildcat Mountain? 3 Rockwell, a little bit southwest to where you see all of 4 A. Isah. It depends on what you're doing. 4 5 those roads kind of intersecting? 5 Q. You fly then into the Test and Training Range? 6 6 Q. Yes. λ. Iss. You enter the range and then you have 7 7 A. That's Dalts. Then we come in mear what is-all kinds of manesverability. You can get down on the those little lakes out there is a complex which used to 3 8 deck or whatever you need to do, depending on what the be called Sevier. 9 mission profile is. 9 Q. What were the last training missions that you 10 Q. And those lakes are between Cricket Mountains 10 and Granite Peak, somewhere in between? 11 11 flew, when were they flown? A. In the '90s, probably '92. They won't let me 12 A. Yas. 12 Q. Those flights would take off from Hill Air 13 fly anymore. I'm too old. 13 14 Force Base and come over Salt Lake City? Q. You would love to fly some more, right? 14 A. Yes, in those particular cases. Although they 15 Iss, I would love to. Talk is cheep. ٨. 15 come both ways. They go directly out west from Hill 16 Q. Do you know what routs they use today to fly 16 into the range and south into the range. 17 to the Otah Test & Training Range? Do they use the same 17 route or do they use a different coute? 18 Q. And when they came down south they would come 18 down over this place between Rockwell and Fillmore? 19 A. I don't believe I can tell you with absolute 19 A. Delta. 20 accuracy what they use. I'm sure that they use that, 20 21 among other routes. I know that they go west into the 21 Q. Delta? 22 range. I believe, but I do not know, that they also 22 A. Yes. 23 come south through Skull Valley as another route, but 123 And then you would swing around? Q. 24 I'm not an expert on that particular aspect and I think ٦ A. And into the range here. Around Notch Peak and Hollow Peak? 25 you need to be surn that you know that. ٥.

PAGE SO PAGE 49 49 50 are always down fairly low. So that was our major Where is Hill Air Force Base? It's located up 0. 1 2 2 concern with that corridor. here by Coden? Q. What kind of northbound traffic did you 3 A. Right there, yes. You can sit out here and 3 watch them going directly across the lake into the 4 4 encounter? 5 Primarily fighters. range. 5 A. 6 Do you know where they were headed? Q. Into the north area, north range? 6 Q. 1 λ. And also you can hear them coming across Sait 7 λ. No. 8 Lake southbound. Some of them you'll see go across the 8 Do you know whether they still fly that route Q. 9 lake and then turn south. 9 today? Wall, I know that helicopters still watch for 10 Q. And south--10 λ. 11 λ. In this area, So they would come through the 11 them and work with Clover Control to try to maintain Skull Valley area. 12 12 separation. Clover Control is the 299th Squadron. 13 Q. Do you know where they fly in Skull Valley? 13 Q. You said you commanded a group responsible for A. I do not. And I don't know what altitude they air traffic control? 14 14 A. That's the 299. fly. I know one thing, I know that in helicoptering 15 15 back and forth to Duquey coming across Skull Valley we 16 Q. | Would you describe for me what you did as head 16 17 often would encounter fighters at low level proceeding of that group? 17 northbound. A. Well, what any commander does, you know. It's 16 18 19 keep me out of trouble type thing. Actually, I visited 19 Q. Where at, approximately? 20 A. We would come across near perhaps just a 20 their operations on a number of occasions. Whenever little south of Johnson's Pass and then proceed 21 there was an accident on the range they called me. I 21 directly -- you can see the roads. And this would be 22 spent time working on issues of manpower related to the 22 number of operations they were dealing with. I also was 23 English Village right about here. And we would 23 24 involved in their issues related to the equipment that encounter northbound - mostly northbound traffic at low 24 they used to operate on the range and the facilities level. There was southbound traffic, but balicopters 25 25 PAGE 52 _ PAGE 51 _ 51 52 question about the range, they're probably my source for that they had available to them because they had to have 1 1 information because I know them and I know who to talk gap filler radars at various locations so they could 2 2 to up there and I know what they do so I can find out have better coverage of the range. They needed sites 3 3 where they could provide adequate communications. You what I need to. 4 4 Q. I would like to have marked as Exhibit 2 a know, there were blank areas in the range that they 5 5 6 document which is a RAI response to 8.2 regarding needed better communications for so we worked on things 6 1 hanging bombs? -like that. Their personnel requirements were based on 7 (Exhibit 2 marked for identification.) 8 the sorty rate at the range and so we had to review 3 Q. (BY MR. GAUKLER) Showing you a document which 9 9 their personnel requirements. is a historic response to a question that the NRC had 10 0. So you provided support for the air traffic 10 concerning hanging bombs and flights with respect to the 11 11 control? 12 UTTR, have you seen this before? 12 A. Iss. A. I as trying to think whether I did or not. I 13 Q. But you weren't actually commanding-13 A. I wasn't the commander of the unit, but the 14 may have. I think I have seen this. 14 Q. Seen this. What are you referring to when you 15 commander of the unit reported to me. 15 16 say "this"? Q. You provided support for the air traffic 16 A. Standard incident departure routes and this 17 17 control? map. Tes, I think I have seen this map. Well, I'm not A. Uh-huh (affirmative). So I was fairly 18 18 absolutely certain. familiar with what they were doing. I spent quite a bit 19 19 Q. Reviewing response (a), okay, it says that the 20 of time up there. 20 21 number of sorties flown, based upon statistics received Q. When was this, what period of time? 21 from the Air Force, the number of sorties flown with 22 A. Wall, it ended in '94, October of '94. 22 respect to the UTTR for fiscal year 1998, October 1, Have you continued to have any contacts or be 23 23 0. 1997 through September 30, 1998, total 8,711? 24 familiar with that since then? 24 λ. Yes. A. I contact them on certain issues. If I have a 25 25 ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441

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Q. Does that sound like a correct number to you?

A. What, the 8,000?

Q. Yes.

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A. I have no reason to dispute it. I don't know. It sounds low, but historically low. That doesn't mean it isn't correct.

Q. You say historically low in that you recall higher numbers in the past?

λ. Tes.

Q. Do you have any idea what the number of sorties are planned for the future?

A. I have no idea and I think that's a function 12 13 of budgets and -- well, basically it's budgets, period. 14 That's what defines that. Let me just clarify by saying that the range itself has -- you know, the Department of 15 16 Defense has, as a result of the McHamara whis kids of 17 the past, has gotten itself into a situation where every 18 time you want to use somebody else's location or 19 equipment you have to pay for it, you have to transfer 20 money from your budget to their budget. This has affected for a number of years sorties on the range 21 22 because if the range is owned by one entity and another 23 entity wants to use it, they have to transfer money to 24 use it or they can't use it. So it can sit there and 25 they can't get on it and they need to train, but they

What do you mean, the basis?

What was the source of those numbers?

deal with them. See, we manned that on the basis of the

Q. Do you know what percentage of the sorties

have no way to know whether that's true or not true. I

know that a lot of missions there do not carry ordnance.

Q. Let's focus on the south Utah Test & Training

A. Cruise missile testing, air-to-air combat

training, low level tactics. Let me clarify that. What

I'm talking about is if you're going to attack a target,

one of the things you have to do is decide what is the

against air-to-air retaliation. Sometimes the best way

stay low and hidden. So in the helicopter business they

the trees and pop up and fire and drop back down again.

to attack the target is through masking, which is to

call it map of the earth, where they stay way down in

best way to attack the target and protect yoursalf

have no reason to doubt it, I just don't know. I do

Range for a second. What type of training activities

take place on the south Utah Test & Training Range?

A. You have here in this document 15 percent. I

sorty rate. So we were always fighting for manning.

Well, that would be the 299th unit that has to

don't have money in their budget to transfer.

It's my understanding that in the very recent past that situation has changed somewhat insofar as control of the range is concerned. And I don't know what effect that will have on the sorty rate, but I think there are other things that affect the sorty rate. One is the activities that we're involved in worldvide which take units away from training and put them in operational activities, and the second thing is the down-sizing, or to use the politically correct term, the right-sizing of the military.

Q. So it reduces the number of planes flying?

A. Yes. So I think that you may have a better feel for sorty rate if you use several years rather than one year.

Q. Do you know the sorty rate for previous years?

A. My recollection, and you know, it's my recollection, okay? Is that the sorty rate has been up

in the naighborhood of 14,000 per year.

Q. What years were those, do you recall?

A. Well, I would say that would have been at least two to three years ago.

Q. And the basis for those numbers were what?

A. The basis for the numbers?

Q. The 14,000.

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λ.

Q.

λ.

carry live ordnance?

So, you know, that's all I know.

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In the case of fighters, sometimes you mask yourself with a mountain range or something else and pull up over the range and attack the target.

Q. So to test fire you try to mask by staying near the mountain range?

A. Tes. So it's low altitude tactics to avoid detection and impact from air-to-air. So there's obviously some of that done. That doesn't mean they're going to drop ordnance, that means they're just practicing tactics.

Q. Where do they drop ordinance or fire?

λ. The only place they can drop ordnames is on the locations that you have outlined here in the ground controlled portion of the Utah Test & Training Range, and they are limited in that area to specific targeting sites.

Q. And the map shows the targeting sites?

A. Tes. I think that's what the little round zeros with the I's in them are. So they can't drop-lat me rephrase that. They're not supposed to drop outside those areas. And obviously it's not a happy day if they come back to the base having done so.

Q. Are you aware of ordnance being dropped outside the designated impact area?
A. I am not. I am not. If there has been, I'm

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PAGE 58 PAGE 57 57 1 not sure I would know about it. So I would have known 1 X. There's several sizes. I think they vary all 2 about it probably in the past if it had occurred because 2 the way from 2,000 pounds down to 500 pounders. the 299th would have reported it to me, but that would 3 3 So 2,000 pounds would be the largest that 0. 4 have been prior to October of '94. 4 you're aware of? 5 5 A. Yes. I think that most of the activity is So you didn't know of any prior to October of Q, 6 194? with the smaller homb. 6 7 Q. The smaller? 1 I don't recall any. A. 8 Tes. 8 1. Q. What type of ordnance do they fire in the 9 9 south UTTR, do you know? Q. Do you know what the extent of a blast pattern 10 A. On Wildcat? They drop hombs, they use 10 would be from, say, a 2,000 bomb? 11 air-to-ground wespon systems, which include-- it 11 A. I do not. No, I'm not an expert. I can tell includes -- I'm trying to think of the right word for the 12 you what it looks like, but that's probably irrelevant. 12 weapon systems. Some of them are what we call dumb 13 Q. Do you know if there's manuals that tell you 13 14 what the blast pattern is for different bombs? bombs and some are called smart bombs. 14 15 A. Oh, absolutely. You can find that 15 Do they use Maverick air-to-ground missiles? Q. Tes, they do. And they may or may not have 16 information, I'm sure. 16 X. live heads on them. I would think in most cases they do 17 17 Q. What procedures are in place with respect to 18 ensuring the safety of these training exercises that 18 pot. Q. Do you know what the range is of the Maverick 19 occur? 19 20 Well, they have a lot of SOP's. They have a 20 air-to-ground system? specific planning process that they go through in which A. No. I don't think I-- I mean, it isn't a 21 21 they plan the sorty in advance, they go through the 22 long range because you're -- you know, but I can't give 22 potential areas for possible risk, they try to identify 23 23 you the range. bow they're going to ampliorate that risk and then they 24 Do you know what size boabs they drop when 24 Q. attempt to implement what they have agreed to in the 25 they do use live ordnance? 25

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aircraft which have live ordnance on board and I think 1 preflight planning. whenever you're under the path, the flight path of such 2 Q. Do you know of any other area in the south an aircraft there is risk. 3 Utah Test & Training Range other than Wildcat Mountain Q. Putting aside the overflights, okay, is there 4 where they use light ordnance? any risk from the actual activities once the plane 5 A. There's another complex called Kitty Cat and I 6 reaches the--can't tall you whether they can use live ordnance at Once it gets on Wildcat? 1 λ. Kitty Cat or not. 8 Q. Yes. Q. Where is that in relation to Wildcat? A. I would be very surprised if there was a risk. A. It's not far from Wildcat, but I'm not sure I 9 You mentioned that there's testing missions? can pick it out on this map. But I'm sure you can get 10 Q. Uh-huh (affirmative). 11 λ. that information. What testing missions are you aware of with 12 Q. Do you know what direction they fire live Q. respect to the Utah Test & Training Range? 13 ordnance at Wildcat Mountain? A. Well, you know about the cruise missile A. I don't know limitations on direction, but I 14 testing, that's an ongoing process. The Utah Test 5 would say that the majority of their sorties are north 15 15 Training Mange is well suited for cruise missile testing 16 to south or south to north. I can't tell you for sure 16 so it becomes a popular candidate. The range complexes that that is an exclusive limitation. 17 17 in the southwest provide an opportunity for missiles to Q. Do you see the training exercises on the south 18 18 be launched even as far every as the Facific Ocean and to 19 Otah Test & Training Range posing any significant hazard 19 come through the range complemes up into and terminate 20 to the Private Fuel Storage facility? 20 in the Utah Sesting & Training Range. Air launch craise A. Hell, I think there is some risk. I can't 21 21 22 missiles are sometimes launched in the range and then quantify the risk. It may be very small, it may be 22 23 because of the width of the range it allows then to nonexistent, it may be -- I can't think that it's large, 23 perform a number of maneuvers and test out the accuracy but I don't think I'm an expert enough to quantify it. 24

of their operations. So they test new weapon systems in I think there is the possibility of overflights with 25

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	La Los Visited Incolor
Tra	1 that goes on on the range and I have limited knowledge
range, they also test existing weapon systems. You	a st suban testing I an guite familiar with the cruise
now, the Air Force has an cogoing program of testing	3 missile testing because that's been a frequent ongoing
the importance as an angle to be sure that its	4 program there.
and a still predictable. So that occurs of the	i the second part of the Critise
5 range. Munitions testing occurs in the range and it's	5 Q. What knowledge do you have of the clube
5 range, Minitions testing occurs in the development	6 missile testing program at the Otah Test & Training
5 really based on the nation's research and development	7 Range?
7 program and their acquisition program as to what is	A. What knowledge de I have?
2 hashed there	g Q. Yes.
Do you see any of these test activities posing	a succession have been successive
I A A A A A A A A A A A A A A A A A A A	The second second second they
	11 Q. Let me break it down some. dow often do they
11 Storage area?	12 do cruise missile tests, do you know?
12 A. Wall, there is some risk because they don't	13 A. Hell, it varies somewhat, but they are- my
12 A. well, they're supposed to do. Scentimes they 13 always do what they're supposed to do. Scentimes they	it a superior talls me that they have been somewhat more
13 Bivey's do what they is beyond and end up in the wrong 14 go where they're not wanted and end up in the wrong	for some in the past than they are now, but they still-
16	The second secon
	I The second second second second was the second se
	17 look back, and say over a tes year period yet to that
17 equipment? 18 A. Well, there's certainly been a number of	11 non compared 13 accidents with cruise missiles, that
18 A. Well, there's curtainly been a second	19 gives you some idea of the amount of activity that's
19 cruise missile accidents on the range.	20 going on since you would expect the accident zate to be
les o Butting gruise missiles to one sloe, ou you	21 fairly low.
las incur of any other testing that could pose a potential	The second
	22 Q. Do you know now many tests cook place over
22 hazard to the Private fuel Storage facility the storage	23 that ten-year period?
 23 on the Utah Test & Training Range? 24 A. No. But my knowledge is probably irrelevant 24 A. No. But my knowledge is probably irrelevant 	24 A. I do not. I'm speculating so I don't know.
24 A. No. But my more and alersidiat tarting	25 Q. But you do know the accidents, though?
15 because I don't have knowledge of classified testing	
	PAGE 64
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	09 (Exhibit 3 marked for identification.)
1 A. Hell, I know what information has been	1 (Exhibit 3 marked for identification.) 1 (BY WR. GAUKLER) Are you familiar with the
1 A. Hell, I know what information has been	1 (Exhibit 3 marked for identification.) 1 (BY WR. GAUKLER) Are you familiar with the
1 A. Hell, I know what information has been	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as
1 A. Well, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3?
1 A. Well, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I am.
1 A. Well, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you 4 know? 5 A. Well, they're in a variety of locations on the	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I 20. 6 0 and what is that document?
1 A. Well, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you 4 know? 5 A. Well, they're in a variety of locations on the 6 range.	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I an. 6 Q. And what is that document? 9 Reall it's a summary of the accident
1 A. Hell, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you 4 know? 5 A. Well, they're in a variety of locations on the 6 range. 3 Q. No you know of any accidents that took place	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I am. 6 Q. And what is that document? 7 A. Well, it's a summary of the accident 9 investigation for the United States Air Force AGM-129
1 A. Hell, I know what information has been 2 gathered on that. 3 Q. Where did these accidents take place, do you 4 know? 5 A. Well, they're in a variety of locations on the 6 range. 3 Q. No you know of any accidents that took place	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I am. 6 Q. And what is that document? 7 A. Well, it's a summary of the accident 8 investigation for the United States Air Force AGM-129 9 advanced cruine missile and gives a serial number and
 A. Well, I know what information has been gathered on that. Q. Where did these accidents take place, do you know? A. Well, they're in a variety of locations on the range. Q. Do you know of any accidents that took place off the Utah Test & Training Range or Dugway Proving Ground? 	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I am. 6 Q. And what is that document? 7 A. Well, it's a summary of the accident 8 investigation for the United States Air Force AdM-129 9 advanced cruine missile and gives a serial number and 10 date of 10 December 1997.
 A. Well, I know what information has been gathered on that. Q. Where did these accidents take place, do you know? A. Well, they're in a variety of locations on the range. Q. Do you know of any accidents that took place off the Utah Test & Training Range or Dugway Froving Ground? J. The not aware of any. 	1 (Exhibit 3 marked for identification.) 2 Q. (BY MR. GAUKLER) Are you familiar with the 3 document that I've handed you that's been marked as 4 Exhibit 3? 5 A. Tes, I am. 6 Q. And what is that document? 7 A. Well, it's a summary of the accident 8 investigation for the United States Air Force AMM-129 9 advanced cruine missile and gives a serial number and 10 date of 10 December 1997.
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PAGE 66 . PAGE 65 65 66 to read, but it appears to be the same page, yes. research facilities? 1 1 2 A. Well, it's the University of Tokyo that is Q. Where did this accident, cruise missile 2 3 collaborating with the University of Utah in doing accident occur? Can you point to one of the maps that 3 commic zay research. we have given you of the Utah Test & Training Range map 4 4. 5 Q. And do you know whether or not the missile was or the Dugway Proving Ground map? 5 A. I'm not sure this map is going to do it for 6 off course when it hit those facilities? 6 A. One would hope so. 1 1 115. Would the Dugway map do it for you? 8 Q. From the report are you aware--9 Q. A. That might be better. I think the description 9 A. Otherwise the Japanese will be even more 9 have is probably as good as anything I can give you of 10 essenced with us than they already are. 10 where it occurred. Obviously it's in the Cadar Q. Well, isn't it true that the report says that 11 11 the facilities were in the test area unbeknownst to the Mountains, but I can't tell you exactly where. 12 12 O. And what's your understanding of what happened 13 people who were doing the test? 113 A. Ins. I quess it's a question of, you know, 14 in this cruise missile accident? 14 who is the parties that don't know. Duqway obviously A. Well, they lost communication with the missile 15 115 knew, but the Air Force may not have known. And I don't at the end of the -- after they had released their 16 16 have any information on that. But you're right, it was 17 simulated weapon. 17 surprising to the Air Force that they could impact a 18 0. And what did the missile do? 18 research van in the Utah Test & Training Range. 19 It just nosed over, a steep dive and crashed. 19 1. Q. So the research wan was actually in their Q. Is that what they're programmed to do, cruise 20 20 designated test area, right? missiles, assuming they don't receive a contrary 21 21 22 1. That's correct. 22 communication? Q. So the missile didn't go outside the A. I can't -- you know, I don't know the answer to 23 23 designated test area, correct? 24 that question. 24 25 A. No, that's correct, Q. Now, you said it hit some Japanese laboratory 25 PAGE 68 PAGE 67 68 67 Of the Cedar Mountains? Q. Q. Focusing on the north Utah Test & Training 1 1 A. Ies, east of the Codar Mountains. Excuse me. 2 Range, do you foresee any activities in the north Otah 2 North to the Cadar Moustains, you're correct. Test & Training Range having any impact on the Private 3 3 Q. So that's the only potential impact you see on 4 4 Fuel Storage facility? the ITP would be the transportation of those munitions? 5 A. I'm not aware of any. 5 A. Tas. Too know, I don't know what other impact 6 Do you foresee any activities in the north Q. 6 there would be, but that doesn't -- I mean, that's just 7. "Utah Test & Training Range that might have impact on 7 all I know. the Intermodal Transfer Point which would be along 8 8 Q. Do you have any idea of the likalihood of 9 Interstate 80 about two miles west of Rowley Junction? 9 adverse impact from the transportation of those A. The only impact that I could foreses would be 10 10 munitions? the transportation of munitions which occurs on I-80 11 11 A. I don't have any information. 12 from Hill Air Force Base and from Salt Lake Airport 12 Q. Are you aware of any incidence involving the 13 No. 2 to the area that is near the Eagle Range and is 13 transportation of those munitions? 14 near the Lakeside Gunnery Range which is on the west and 14 A. No, I'm not sware of that. There probably of -- excuse me, the east end of the ground owned 15 15 wouldn't be mless there was a major problem. 16 property of the Utah Test & Training Range. 16 Q. Are you familiar with airplane crashes that 117 The Air Force has a facility located on the 17 have occurred with respect to training and testing ground at that location and when the helicopters fire on 18 19 missions in the Utah Test & Training Range? the Lakeside Gunnery Range they go over to that location 19 19 A. I have the document that lists the aircraft 20 to load their munitions and back and the munitions are 20 accidents in the what, past ten years. transported from this location out I-80 and up the road 21 21 In the past ten years? 22 Q: 22 to the Eagle Range. **Tes**. 23 λ. Q. And the road you're pointing out to that 23 Do you know where those accidents have 24 Q. 24 facility just goes off of I-80 north? 25 occurred? A. Straight north, uh-huh. 25 ASSOCIATED PROFESSIONAL REPORTERS - (801) 322-3441

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	Q. And what potential hazards, if any, do you see	1 that?
2	from, say, the civilian users that go onto the range?	2 A. The 299th keeps records of that, yes. They
3	A. As far as the air carriers go, I see no	3 have to try and get shold of the guys and get them out
4	potential hasards because there's a low probability of	4 of harm's way and stop the fighter try to stop the
5	mid air collision. Other than hazard anywhere of an	5 fighters from running into them. Invariably they come
6	airliner dropping out of the sky, which you know what	6 across at an altitude that is very dangerous, low
17	the potential of that is. There is a somewhat higher	7 altitude. So they're about to encounter a high-speed,
8	potential hazard from civilian pilots who are wandering	8 low altitude surprise.
9	across the range without clearance because of the	9 Q. Do you see takeoffs and landings at Salt Lake
10	possibility of mid air collisions. And that, whether or	10 City Airport itself posing any hazard to the Private
11	not that creates an increased bazard for the PPS	11 Fuel Storage facility?
12	facility, I have no way of knowing. I don't necessarily	12 A. I don't.
13	suggest that it does or it doesn't, I don't know.	13 MR. GAUKLER: Let's take a break for a few
14	Q. Do you know how often such an excursion	14 minutes.
15	occurs?	15 (Short recess.)
16	A. They occur more frequently than I would have	16 Q. (BY MR. GAUKLER) Let's go back on the record.
17	suspected, but I can't tell you what the current rate of	17 General Matthews, just a couple more questions. You had
18	incursions is. Obviously that information is available.	18 referred to the excursion into the UTTR private civilian
19	I was surprised at the number of people who wander	19 planes. Has there ever been an accident caused by the
20	across. Being a pilot myself, I can't believe people do	20 excursion of private civilian planes into the UTTR that
21	that, but they do. And some of them are, obviously, not	21 you're aware of?
22	in total possession of all their faculties when they do.	22 A. That's a good question. In my mind I vagualy
23	So that information is available. I'm sure you could	23 remember something, but I can't varify it so I will have
24	get that if you wanted it.	24 to say I don't know. But it is something that sticks in
25	Q. Hill Air Force Base would keep records of	25 my mind, and it doesn't stick in my mind as a mid air.
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	75	10
		1 A. Oh, I think there's no question about that. I
1	It sticks in my mind as a crash, but not a mid air.	2 don't think you want one coming through your roof, but I
2	But, you know, don't hold me to that.	3 don't know how much they weigh. I've been hit by a
3	Q. The second thing, with respect to the cruise	
4	missile tests, are the cruise missiles armed or not	
1 5		4 goose while I was flying and I can tell you that a goose
1 2	armed when they do those cruise missile tests, do you	5 can make a big hole in your airplane. So years ago they
6	armed when they do those cruise missile tests, do you know?	5 can make a big hole in your airplane. So years ago they 6 said that the wind screen on our aircraft was 400 foot
5 6 7	armed when they do those cruise missile tests, do you know? A. Well, armed or not armed. I guess what we	5 can make a big hole in your airplane. So years ago they 6 said that the wind screen on our aircraft was 400 foot 7 pounds capability, which meant that you could hit a one
5 6 7 8	armed when they do those cruise missile tests, do you know? A. Well, armed or not armed. I guess what we could say for sure is they're not armed with full power	5 can make a big hole in your airplane. So years ago they 6 said that the wind screen on our aircraft was 400 foot 7 pounds capability, which meant that you could hit a one 8 pound object at 400 miles an hour and it would resist it
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