

CERTIFIED COPY

1

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 ---oooOooo---

4 In the Matter of :
5 PRIVATE FUEL STORAGE : Docket No. 72-22
L.L.C. : ASLBP No. 97-732-02-ISFSI
6 :
7 (Private Fuel Storage : Deposition Of:
Facility) : DAVID C. LARSEN
8 ----- :
9

10 ---oooOooo---

11 Deposition of DAVID C. LARSEN, taken at
12 the law offices of Parsons, Behle & Latimer, 201
13 South Main, Suite 1800, Salt Lake City, Utah, on the
14 12th day of May 1999, at the hour of 9:00 a.m.,
15 before David A. Thacker, a Certified Shorthand
16 Reporter, Registered Professional Reporter, Utah
17 License No. 22-105417-7801 and Notary Public in and
18 for the State of Utah.

19 ---oooOooo---



ASSOCIATED PROFESSIONAL REPORTERS, L.C.

P R O C E E D I N G S

DAVID C. LARSEN,

being first duly sworn, was examined and testified
as follows:

EXAMINATION

BY MR. GAUKLER:

Q. Would you please state your full name for
the record.

A. David Curtis Larsen.

Q. David, my name is Paul Gaukler, and I'm
going to be asking a series of questions this
morning. If at any time you don't understand a
question that I ask you, would you please ask me to
clarify the question?

A. Okay.

Q. What is your current position and employer?

A. I'm an environmental scientist with the
Utah Department of Environment Quality, Division of
Solid and Hazardous Waste, Chem Demil Section.

Q. Very specific. How long have you been an
environmental scientist with the Department?

A. About ten, ten and a half years.

Q. So you joined them about 1989?

A. August '88.

Q. August '88. Okay.

1 until you joined from '87 to '88?

2 A. Well, actually, I was in school while I
3 taught school. My wife was finishing school at BYU.

4 Q. Very good. Since you have joined the State
5 in August 1988, what have been your positions?

6 A. Same position.

7 Q. Environmental scientist?

8 A. Uh huh (affirmative).

9 Q. At Solid and Hazardous Waste?

10 A. Right.

11 Q. And what duties have you had at Solid and
12 Hazardous Waste throughout that period of time, from
13 August 1988 to the present?

14 A. Connie could answer that question. She
15 used to be my boss.

16 Q. I didn't know.

17 MS. NAKAHARA: Don't volunteer any
18 information.

19 MR. GAUKLER: We'll ask you, Connie.

20 THE WITNESS: Permit--RCRA permit writer,
21 and evaluate closure plans, do hazardous waste
22 inspections. That pretty much generally covers it.

23 Q. (BY MR. GAUKLER) What type of inspections
24 did you say?

25 A. Hazardous waste inspections.

1 Q. Hazardous waste.

2 A. Yeah.

3 Q. Those are hazardous waste under RCRA?

4 A. Right.

5 Q. And for what facilities have you done work?

6 A. Dugway, Tooele Army Depot north and south.

7 A lot of different ones throughout the state. Just
8 I can remember a few, Trojan, IRECO, Thiokol.

9 Q. How much have you done at Dugway?

10 A. That's what I've mainly worked on.

11 Q. That's what you've mainly worked on?

12 A. Yeah. For the last, I don't know, six or
13 seven years.

14 Q. What's your position with respect to
15 Dugway? Do you have a special title with respect
16 to--

17 A. No.

18 Q. Are you the lead person at solid and
19 hazardous waste assuming Dugway?

20 A. Yeah, uh huh.

21 Q. And how long have you been the lead person?

22 A. Same amount of time. Six or seven years.

23 Q. Six or seven years?

24 A. Yeah.

25 Q. And prior to that time you have worked on

1 Dugway as somebody on the staff?

2 A. Just Dugway and other projects, yeah.

3 Q. Okay.

4 A. Yeah. Before that time we were kind of
5 split into permitting and compliance, and I was in
6 permitting, and so it was--and now we all sort of do
7 inspections and permitting.

8 Q. So before you were kind of organized by
9 task?

10 A. Right. Connie was the permit section
11 manager.

12 Q. And permit section, you did permits for
13 Dugway and other facilities?

14 A. Right. Uh huh.

15 Q. And now you're organized by facility?

16 A. Right.

17 Q. And your assignment under this organization
18 is Dugway?

19 A. Right.

20 Q. Are you familiar with the Private Fuel
21 Storage project at the reservation at Skull Valley?

22 A. I'm familiar they want to build a nuclear
23 waste storage.

24 Q. What's your familiarity?

25 A. That's pretty much it. The location and

1 they'll pick that up and take it to Igloo G.

2 Q. In not, then they'd get an emergency permit
3 from you and--

4 A. Blow it up.

5 Q. We'll get to that later. Okay.

6 Is there any other chemical munitions
7 stored at Dugway other than those stored at Igloo G?

8 A. Not to my knowledge. Other than, you know,
9 buried in the ground.

10 Q. That would be stuff that is not found yet
11 would you say?

12 A. Right.

13 Q. That's unexploded ordnance that may
14 not--that's undiscovered?

15 A. Right. Uh huh.

16 Q. So everything within Igloo G, other than
17 the chemical agent you talked about, would be a
18 hazardous waste. Is that true?

19 A. I'm sorry, say that again?

20 Q. Everything in Igloo G--

21 A. Except the product agent, yes, is hazardous
22 waste.

23 Q. So all the chemical munitions in Igloo G
24 are hazardous wastes?

25 A. Yes.

1 Q. Now, Request for Admission No. 4, I take it
2 that you--that the storage of chemical munitions in
3 Igloo G would not pose a hazard to the PFSF?

4 A. Right.

5 Q. That's correct?

6 A. Right.

7 Q. Because you regulate that under RCRA, and
8 you ensure compliance. Correct?

9 A. Yeah. Right. Yeah.

10 Q. Now, what disposal of chemical munitions
11 takes place at Dugway?

12 A. Just the emergency destruction of rounds
13 found on the range, or rounds that are evaluated and
14 shown to be too dangerous to store in Igloo G.

15 Q. Okay. So how are they--let's take the
16 first one.

17 A. On the range.

18 Q. Let's take the ones found too hazardous to
19 store in Igloo G. How are they disposed of?

20 A. They're removed from the Igloo, taken out
21 to an area where it's believed to be safe, and
22 detonated using usually C4 plastic explosive.

23 Q. Now, I've heard open burning and
24 detonation, is that--

25 A. Open detonation, no open burning on rounds.

1 not directly regulated by the state but still in
2 you're saying the Igloo with the munitions, would
3 that pose a threat to the Private Fuel Storage
4 Facility?

5 A. No.

6 Q. Do you know if they store a chemical agent
7 anyplace else in Dugway?

8 A. At the chem lab.

9 Q. Where they're actually using it?

10 A. Right.

11 Q. Would the storage of the chemical agent at
12 the chem lab produce any hazards, significant
13 hazards, to the Private Fuel Storage Facility, as
14 far as you're concerned?

15 A. No. Also the material test facility is
16 another area where they test agent, so that would be
17 a place where they'd store it too.

18 Q. And would the storage there present any
19 hazard to the Private Fuel Storage Facility at the
20 material test laboratory?

21 A. No. No.

22 Q. Going back to the disposal of the chemical
23 munitions. Okay?

24 A. Uh huh (affirmative).

25 Q. Any disposal of chemical munitions,

1 therefore, takes place under emergency permits
2 issued by the State?

3 A. Right.

4 Q. And what type level precautions are taken
5 in the disposal of those chemical munitions?

6 A. First of all, we don't--we won't approve an
7 emergency permit unless the army explosive people
8 declare that munition to be unsafe to manage in any
9 other way except detonation.

10 Q. Okay.

11 A. Because that is not our preferred method
12 for dealing with those.

13 Q. Okay.

14 A. And so if it is declared an emergency by
15 the army, we don't question that, and we'll approve
16 the permit. But before we do that, they do a, sort
17 of a risk evaluation, and they determine, you know,
18 like the--a good location to do it, make sure nobody
19 is around there, do it only during certain wind
20 direction, wind speed type of thing. And then they
21 use a certain amount of explosive to make sure that
22 the agent is totally destroyed when they blow it up.
23 And EOD usually uses a five to one ratio of agent to
24 explosive. Five times the agent for the amount of
25 explosive.

1 Q. Is that sufficient to destroy the agent?

2 A. Yeah. And they basically define what they
3 call I think a kill zone, and, you know, you have to
4 be a certain distance. You know, if you're
5 within--you don't want to be within the kill zone is
6 what I'm saying. So they define where that is, and
7 then, you know, make sure nobody is there. A lot of
8 times Dugway doesn't--most of the operation, they
9 work Monday through Thursday, so they'll do it on a
10 Friday or Saturday when nobody is there.

11 Q. So they define a particular zone where
12 people are evacuated from?

13 A. Right.

14 Q. Make sure there's nobody there?

15 A. Right.

16 Q. How big is that zone?

17 A. The last one was, let's see, think just one
18 round, and it was detonated about, I don't know,
19 about a mile I think to the east of Igloo G at one
20 of these cleanup sites. And that one had a kill
21 zone of about--this is just approximately, okay?

22 Q. I understand.

23 A. Like 3,000 feet or something like that.

24 Q. Where is Igloo G, first of all, on this
25 map, Exhibit 1?

1 A. Let's see. Here is CARR over here.

2 Q. Where is my map.

3 A. Do you want to get out the colored copy?

4 Q. Okay.

5 A. This is--let's see. Here is CARR facility
6 over here.

7 Q. Where is that? A little bit just south of
8 the big number 207 on the map.

9 A. Sounds good. Yeah. And the detonation was
10 at SWMU No. 79 I believe. So it was kind of like
11 that.

12 Q. SWMU 79?

13 A. Uh huh (affirmative). The kill zone, so to
14 speak, the area of--that they made sure was safe,
15 that they thought the agent might go in that
16 direction, was to the north of there.

17 Q. North of there.

18 A. Right.

19 Q. About 3,000 feet?

20 A. I believe that was the number, yeah.

21 Q. 79.

22 A. We've got the report and so on. And
23 they're going to do another one, too, here pretty
24 soon. Same area.

25 Q. And what agent was involved in that

1 explosion?

2 A. I can't remember. I'm fairly sure it was a
3 G agent, but I'd have to check. GB.

4 Q. GB?

5 A. Right. They didn't sample it or anything.
6 They have to use non-intrusive methods to figure
7 out.

8 Q. What's the biggest kill zone or evacuation
9 that--are you present when they do these emergency
10 detonations?

11 A. I have been, yeah, but I wasn't present for
12 that one.

13 Q. Okay. But you review the permits, and
14 permits identify--you review--

15 A. Actually, I didn't review that one. I'm
16 just familiar with it.

17 Q. Do you review the permit applications?

18 A. Yeah. Right.

19 Q. That identifies in there what the zone of
20 evacuation is?

21 A. Yeah.

22 Q. And what's the largest zone of evacuation
23 that you can remember for these emergency permits?

24 A. Usually just one or two rounds, so a
25 similar type of thing to that.

1 Q. So roughly 3,000 feet?

2 A. Yeah.

3 Q. Maybe a mile max?

4 A. Probably.

5 Q. Okay.

6 A. Like I say, there's another one that
7 they've just sent in for some munitions that they've
8 determined are unsafe to store in Igloo G, and I
9 think there's three or four of them, so we'll do
10 those. And I'm not sure what the area, evacuation
11 area, is going to be like for that.

12 Q. But you expect it to be on the order of a
13 mile at most?

14 A. Probably.

15 Q. How far--you were identifying on this map
16 the southern part of the reservation along this road
17 here. And how far is the southern part of the
18 reservation approximately from the nearest point of
19 Dugway?

20 A. Well, up here it's, I don't know, where is
21 the--is there a scale on here? Let's see, one inch
22 equals 1.6 miles. So I'd say that's about a mile
23 maybe.

24 Q. That part of it. How far do you--

25 A. Let's see. The reservation actually cuts

1 off over here. So maybe a couple of miles.

2 Q. How far is the Igloo G from the
3 southernmost point of the reservation?

4 A. Just a ballpark guess, I don't know. What,
5 ten miles?

6 Q. What did you say?

7 A. I'm sorry. She's an engineer. I'm
8 guessing ten miles.

9 Q. Ten miles at least or so?

10 A. Yeah.

11 Q. Okay.

12 A. I mean, we like to--we wouldn't want to
13 approve something that's going to impact anything
14 off the Dugway facility.

15 Q. Right. So you wouldn't approve something
16 unless the impact stayed on Dugway?

17 A. We wouldn't. We wouldn't.

18 Q. Okay. And also you wouldn't approve
19 anything that, in fact, would go to English Village
20 on Dugway?

21 A. Right. Right.

22 Q. They're Utah citizens as well. Right?

23 A. Yeah.

24 Q. Well, do you think that the disposal of
25 chemical agents under emergency permits issued by

1 the State, posed any hazard to the Private Fuel
2 Storage Facility?

3 A. No. As long as it's on facility, you know.
4 If they found one off facility near the PFS, then
5 yeah. But, you know, that hasn't happened so far.

6 Q. They haven't found any off--

7 A. There have been some found off to the
8 south, but none to the north.

9 Q. None off to the north off facility?

10 A. Right. Right.

11 Q. So they found some off to the south, is
12 that kind of down in this dark area on this below
13 Dugway here?

14 A. Right. Right. These 127, 128 on this map.

15 Q. What area is that called?

16 A. 126 is called Yellow Jacket, it's also a
17 FUD site. And 127 is called the Southern Triangle.

18 Q. Southern Triangle?

19 A. Right.

20 Q. So that's where you found some munitions
21 off site?

22 A. Right.

23 Q. Okay.

24 A. In fact, one of our own guys found one
25 right there at Yellow Jacket.

1 Q. At the 126 off the site there?

2 A. Uh huh (affirmative).

3 Q. By the same token, therefore, you believe
4 that unexploded ordnance on Dugway would not pose a
5 hazard to the Private Fuel Storage Facility?

6 A. Yeah.

7 Q. That's all in a different location on
8 Dugway?

9 A. Right.

10 Q. The chemical agent, okay, we talked about
11 chemical agent being stored, you said there would be
12 no hazard from storage of chemical agent. How about
13 the testing of chemical agent at Dugway? Do you
14 foresee that posing potential hazard to the Private
15 Fuel Storage Facility?

16 A. No.

17 Q. Again, that's done inside laboratories?

18 A. Right.

19 Q. With protections?

20 A. Exactly.

21 Q. Like we have in a fume hood, for example?

22 A. Yeah. Carbon filtered system.

23 Q. Carbon filter?

24 A. Right.

25 Q. Negative pressure?

1 A. Right.

2 Q. The building is at negative pressure so
3 things don't go out?

4 A. Sucks through the carbon filter. Right.

5 Q. Now, the name of the laboratories where the
6 chemical agent is tested, you identified two, you
7 said one was the material test lab facility?

8 A. Right.

9 Q. And what's the other one?

10 A. The chemical lab.

11 Q. Chemical lab. Are those the only two
12 places that you know?

13 A. And then they have another facility, it's
14 where the MMD is right now, it's Building 3445.

15 Q. 34--

16 A. It's the old test facility, the MTF
17 replaces that. But there are still some activities
18 going on at 3445.

19 Q. You don't see any hazard posed from testing
20 at that location?

21 A. No. No.

22 Q. Now, in terms of biological agents. All
23 biological agent testing takes place in the Life
24 Sciences Laboratory?

25 A. Right. Well--

1 Q. Life sciences facility, is that--

2 A. All testing of biological agents that are
3 dangerous.

4 Q. Okay.

5 A. But I believe there's simulant testing that
6 goes on outside.

7 Q. But simulant testing--

8 A. To the best of my knowledge. It's not
9 something that's going to hurt somebody.

10 Q. And you don't foresee any potential hazards
11 in the testing of the Life Sciences Laboratory to
12 the Private Fuel--

13 A. Right.

14 Q. They're done under strict procedures and
15 control?

16 A. Right. They have the same kind of filter
17 system and so on.

18 Q. Negative pressure?

19 A. Yeah. Right.

20 Q. The testing and firing of weapons. Okay.
21 What's your familiarity with the testing and firing
22 of weapons, the--strike that. What's your knowledge
23 with respect to the various training activities that
24 take place at Dugway?

25 A. Okay. Well, the training activities aren't

1 A. Right. And then that's all that I know of
2 for sure. I'm not sure whether they fire to the
3 north or not.

4 Q. But again, they fire away from populated
5 areas?

6 A. Right.

7 Q. Do they have any special procedures they
8 take to protect the firing of these, any training
9 exercises when they use live ammunition?

10 A. Well, Dugway has a pretty sophisticated
11 what they call range control center, and the range
12 control guy is kind of familiar with everything
13 that's going on out in the desert areas, and you
14 have to get clearance from him before you can go to
15 a certain place. And they have a gate at Ditto, and
16 you can't get out that gate until you get cleared
17 from the range control guy.

18 Q. And so basically the purpose of that
19 control is to make sure what?

20 A. That somebody doesn't get accidentally
21 blown up.

22 Q. Okay.

23 A. And they keep, you know, security too.

24 Q. So they have to check out where the weapon
25 is aimed and the direction the weapon is aimed?

1 A. I'm not familiar with the National Guard's
2 procedures, so they--they probably do. I don't
3 know.

4 Q. Okay. Do you foresee any hazards to the
5 Private Fuel Storage Facility from the training
6 exercises of the National Guard and other training
7 exercises?

8 A. I'm not that familiar with it. I mean, I
9 know once in a while, you know, an accident could
10 happen, could shoot the wrong way or too far or
11 something like that. But the only--the thing I
12 would think of, is a lot of the firing that they do
13 includes I think occasionally white phosphorus
14 rounds and other rounds that can cause range fires.

15 Q. And so--

16 A. Guard activities could easily cause a range
17 fire.

18 Q. So you see that being the primary hazard
19 that may result?

20 A. Other than a really accidental, you know,
21 probably I'd say unlikely misfiring, yeah.

22 Q. You think it would be unlikely for them to
23 have a misfire toward the Private Fuel Storage?

24 A. Yeah.

25 Q. Opposite direction?

1 A. And pretty far away.

2 Q. Do you know what the ranges on the
3 munitions they shoot are?

4 A. I'm not sure. It depends on how much
5 powder you use, propellant. Several miles.

6 Q. Several miles?

7 A. Yeah. I think so.

8 Q. Do you know whether they would go 15, 20
9 miles?

10 A. I don't know.

11 Q. So it's unlikely for any hazard to come
12 from these training exercises in terms of the
13 Private Fuel Storage Facility. Is that correct?

14 A. Right. Yeah. Yes. Based on what I know
15 about it, you know. The army could probably tell
16 you more.

17 Q. What testing of weapons, army weapons,
18 takes place at Dugway, if you know?

19 A. I know rockets, they do have a facility at
20 CARR where they occasionally get in a certain number
21 of rounds of certain type of munition, and they'll
22 fire a certain number of them off to--as like a
23 quality assurance type of thing.

24 Q. Okay. That's in the CARR facility?

25 A. Right. It's a testing. Munitions testing.

1 Q. Test facility.

2 A. Yeah.

3 Q. That's in a controlled laboratory type
4 situation?

5 A. No, they fire them down range.

6 Q. I see. Okay.

7 A. Right.

8 Q. And that's again at about 207 on that map?

9 A. In that area. Yeah. Right.

10 Q. And what direction do they fire them?

11 A. They usually fire--I believe they fire to
12 the south and then to the west.

13 Q. South, southwest. Okay.

14 A. Uh huh (affirmative).

15 Q. And do you see any hazard to the Private
16 Fuel Storage Facility from that activity?

17 A. No.

18 Q. Any other testing of weapons that you're
19 familiar with with respect to Dugway?

20 A. No. No. That's it.

21 Q. Okay. Hung bombs. What's your familiarity
22 with respect to the airplane traffic in and out of
23 Dugway? Do you have any familiarity with that?

24 A. I couldn't give you any numbers. I mean,
25 every time I go there you see jets flying around and

1 Q. So do you see any hazard to the Private
2 Fuel Storage Facility from explosions of unexploded
3 or hung bombs?

4 A. No. I mean, unless one dropped before it
5 got there. But yeah. No. Not for my involvement.

6 Q. Do you know what route they take when they
7 fly for--

8 A. I don't.

9 Q. You don't know?

10 A. I assume they just come off the range, but
11 I don't know.

12 Q. I assume they come off the range and stay
13 over military space. But you don't know?

14 A. Yeah.

15 Q. Let's talk about this map here. This map
16 you brought, Exhibit 1, which is called the SWMU
17 Monument Sites. Now, these are--can you tell me
18 what these sites are again now?

19 A. SWMU stands for Solid Waste Management
20 Unit.

21 Q. And are all the circles and triangles and
22 different figures that you see on this map, do they
23 represent Solid Waste Management Units?

24 A. They do. Areas where wastes have been
25 disposed or treated or something like that. The

1 A. Evaluate them in terms of where they
2 were--where Dugway sampled, the parameters they
3 sampled for, and then take that information and
4 determine whether soils need to be removed or not
5 type of thing. Or treated or whatever. How to
6 clean it up.

7 Q. Does the cleanup of these sites pose any
8 hazards to people in Dugway, the people that live on
9 Dugway?

10 A. No.

11 Q. No. Do you see the cleanup of these sites,
12 or any of these sites, posing a hazard, any of these
13 215 sites--

14 A. I mean, they've got signs around all of
15 them that says keep out. So if somebody went around
16 and dug in there, yeah, it's going to impact your
17 life.

18 Q. If they follow the precautions--

19 A. And they followed precautions.

20 Q. And stay away from the do not enter signs.

21 A. Right. Right.

22 Q. So I take it you wouldn't see any of these
23 215 sites posing any threat to the Private Fuel
24 Storage Facility?

25 A. No. You know, other than if there was

1 something we don't know about. You know, we find
2 new ones all the time.

3 Q. And new ones, have you found any new ones
4 off site?

5 A. No.

6 Q. No?

7 A. No.

8 Q. Okay. And are there any to the--you have a
9 couple down in the south part of the site.

10 A. Right. These two.

11 Q. I guess you have--I see only one north of
12 Dugway. Is that correct?

13 A. Right. Actually, though, we really haven't
14 looked that much off site. So--yeah.

15 Q. Why haven't you looked off site?

16 A. Because there's so many on site that, you
17 know--

18 Q. And because you don't expect--

19 A. And also it's difficult to get ahold of all
20 the army's old test documents and stuff like that to
21 do a good evaluation of it. I don't have as good an
22 access to information.

23 Q. Do you expect there to be any off site,
24 many off site or not?

25 A. I expect there to be some more sites we

1 Q. They're transporting some chemical agent
2 from--

3 A. From Tooele to Dugway for the tests.

4 Q. Right. And isn't it true that this
5 document shows that their proposed route, look at
6 the last page, has a Bates number on 32158, the
7 proposed route is over the Pony Express Trail south
8 of Johnson's Pass?

9 A. Yeah. Yeah. I don't know if that's the
10 route they use, but that's what this says, yeah.

11 Q. Do you have any reason to believe that
12 that's not the route they would use?

13 A. Well, no, I don't. I don't.

14 Q. And you're talking about munitions. You
15 would expect them to use either Johnson's Pass or
16 this route here, the Pony Express Trail?

17 A. You would think that's the closest route.

18 Q. You wouldn't expect them to use Skull
19 Valley Road?

20 A. I wouldn't think. But like I say, they're
21 pretty sensitive to security issues when it comes to
22 moving agent around. So--

23 Q. But they've identified this in a published
24 plan here, the proposed route?

25 A. Right. Right. They have.

1 Q. You have no reason to believe that's not
2 the route they would use?

3 A. I don't.

4 Q. In terms of transportation of other
5 hazardous wastes. What's your familiarity with
6 that?

7 A. It would just be the transfer of hazardous
8 waste off site from Dugway to the disposal facility.
9 Or occasionally, like if they found a round down
10 here at Yellow Jacket, site 126 on this map, and it
11 went back onto Dugway for disposal.

12 Q. Okay. And so they would transport wastes.
13 Let me ask you a question. How do they dispose of
14 the chemical agent that they use in the testing?

15 A. How do they--it's decontaminated in a
16 solution, usually bleach or sodium hydroxide.

17 Q. So that's down in your RCRA facility that's
18 licensed on the--

19 A. That's done at the test facility.

20 Q. Test facility?

21 A. Right. And then that waste becomes
22 hazardous waste.

23 Q. So they take the chemical agent to use in
24 the testing?

25 A. Right.

1 Dugway goes through that facility. Anything from
2 agent waste to, you know, waste they would generate
3 at a, like a vehicle maintenance facility or
4 something like that.

5 Q. So anything, oil, for example, would go
6 there?

7 A. Yeah.

8 Q. So it could be decontaminated chemical
9 agent or it could be oil?

10 A. It could be anything, yeah.

11 Q. And again, the State regulates this central
12 waste facility?

13 A. Right.

14 Q. And you have procedures in place to--

15 A. We do annual inspections and so on.

16 Q. Annual inspections. And you have
17 requirements in place to protect the public health
18 and safety?

19 A. Yeah.

20 Q. Do you envision any hazard to the Private
21 Fuel Storage Facility from this central RCRA
22 facility?

23 A. No.

24 Q. Do you envision any potential hazard to the
25 Private Fuel Storage Facility from the disposal of

1 chemical agent?

2 A. No.

3 Q. Then I take it they have this central RCRA
4 facility. Do they transport any of that waste
5 someplace else?

6 A. Yeah. Then that waste goes to off site
7 permitted RCRA disposal facility, the treatment
8 facility.

9 Q. Such as?

10 A. Such as Safety-Kleen in the West Desert of
11 Utah or incineration facilities in Texas.

12 Q. Why in the West Desert of Utah? Is that
13 APTUS?

14 A. I believe they probably send waste to
15 APTUS, yeah, for incineration, and across the road
16 to Safety-Kleen landfill, USPCI. It's changed names
17 a lot recently.

18 Q. Is that also known as Grassy Mountain?

19 A. Grassy Mountain. That's a good name.
20 Yeah.

21 Q. Just trying to use constant names in this.

22 A. Everybody knows that name.

23 Q. That's what we've been using so far in this
24 case, so we're trying to do that.

25 A. Yeah.

1 Q. And where is that waste transported, do you
2 know? What roads are used? Skull Valley--

3 A. To the best of my knowledge, yeah, the
4 Skull Valley Road to I-80, and then out I-80.

5 Q. Do you see the transportation of those
6 wastes causing any risks to the Private Storage
7 Facility?

8 A. No.

9 Q. About two miles off the road?

10 A. Right. I mean, if a nuke truck and a
11 hazardous waste truck hit, that's it. Other than
12 that, it's some kind of a catastrophic thing. But
13 yeah, other than that.

14 Q. You don't see any--

15 A. No.

16 Q. Has the State taken any precautions--I take
17 it the State takes precaution in terms of regulating
18 the transportation of the hazardous waste from
19 Dugway. Correct?

20 A. Right. The waste has to be sent by
21 manifest and tracked, you know.

22 Q. Tracked, and you have procedures for the
23 shipment of that waste, in terms of what type of
24 containers it has to be packed in?

25 A. Right. It has to be in DOT containers.

1 Q. So they have to be in safety certified
2 containers. Is that right?

3 A. Right. Right.

4 Q. What activities--you talk about various
5 activities that you haven't seen proposing any
6 hazard to the Private Fuel Storage Facility. What
7 activities do take place at Dugway that you would
8 see posing any hazard to the Private Fuel Storage
9 Facility?

10 A. None.

11 Q. None?

12 A. I can't think of anything.

13 Q. Okay.

14 A. As far as hazardous waste goes.

15 Q. Well, in terms of the other activities--

16 A. And testing too, yeah.

17 Q. Training exercises, testing for biological
18 agents?

19 A. Yeah. Huh uh.

20 Q. The things we've talked about today?

21 A. Right. Yeah.

22 Q. So you don't see any, you don't know of
23 anything else other than what we talked about today,
24 that would cause a hazard to the Private Fuel
25 Storage Facility?

1 A. No.

2 MR. GAUKLER: Let's take a break.

3 (Discussion held off the record.)

4 (Whereupon, a 5 minute break was taken.)

5 Q. (BY MR. GAUKLER) Are you familiar with the
6 X-33 space plane?

7 A. Only from reading the EIS on that.

8 Q. You have no information beyond the EIS?

9 A. I really don't.

10 Q. Do you see that posing any hazard to the
11 Private Fuel Storage Facility?

12 A. No.

13 MR. GAUKLER: Okay. I have no further
14 questions.

15 MS. NAKAHARA: I have a few.

16 MR. GAUKLER: Okay.

17 EXAMINATION

18 BY MS. NAKAHARA:

19 Q. Dave, let's see. You indicated that Solid
20 Waste Management Units, that there are a number of
21 Solid Waste Management Units on Dugway Proving
22 Ground and off of Dugway Proving Ground. Is that
23 correct?

24 A. Yeah. Uh huh.

25 Q. Have any of the Solid Waste Management

1 MR. GAUKLER: Objection, leading question.

2 Q. (BY MS. NAKAHARA) Let me rephrase it. Are
3 there any circumstances in which the storage of
4 agent or the treatment of agent, could impact the
5 Private Fuel Storage Facility?

6 A. I don't see anything. I mean, if the whole
7 Igloo blew up, I don't know, maybe.

8 Q. If any safety procedures that the army has
9 in place fail, is there a potential for agent
10 release?

11 A. To the environment?

12 Q. Yes.

13 A. Yeah, there is.

14 Q. Is there a potential that an agent release
15 could reach the Private Fuel Storage Facility?

16 A. I don't know. You'd have to do like a
17 modeling study and stuff like that.

18 MS. NAKAHARA: That's all I have.

19 FURTHER EXAMINATION

20 BY MR. GAUKLER:

21 Q. You don't have any reason to believe that
22 Igloo G will blow up. Correct?

23 A. I don't. No. I mean that's why they
24 re-evaluate them sometimes. And like I say, these
25 two rounds they have in there they think might blow

1 up, so they're going to get rid of them.

2 Q. And the Army has procedures that they
3 follow to provide protection at Igloo G and other
4 stuff pursuant to your RCRA permit. Right?

5 A. They have the what now?

6 Q. The Army has procedures that they follow to
7 provide public health and safety pursuant to your
8 RCRA permit?

9 A. Right. Right.

10 Q. And you inspect to see that they follow
11 those procedures?

12 A. Right.

13 Q. You referred to some chemical munitions
14 potentially blowing up in place. If chemical
15 munitions blew up in place on Dugway, that would not
16 pose a hazard to the Private Fuel Storage Facility,
17 would it, because of the large distance, miles away?

18 A. You know, unless it's right on the border
19 of something right on the site, no. No.

20 Q. And in terms of--talking about biological
21 rounds at CARR. What were those biological rounds
22 at CARR that you referred to?

23 A. They were some biological munitions that
24 came to the surface when Dugway was doing an
25 investigation of a contaminated site, and turned out

1 A. No.

2 Q. Do you see any of the other biological
3 agents you referred to, the biological munitions
4 referred to, do you see them posing any potential
5 hazard to the Private Fuel Storage Facility?

6 A. No. Other than like the one we don't know
7 about type of thing.

8 Q. But that would have to be right next to the
9 facility?

10 A. Right.

11 Q. Right next to the Private Fuel Storage
12 Facility?

13 A. Right.

14 Q. So it's safe to conclude as you said
15 before, that you don't see any hazard posed to the
16 Private Fuel Storage facility from Dugway?

17 A. Right. Right.

18 MR. GAUKLER: No further questions.

19 (Where upon, at 10:35 a.m., the deposition
20 was concluded.)

21 ---oooOooo---

22

23

24

25