Page 1 1 IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF ILLINOIS 2 CALEB BARNETT, et al.,) 3) Plaintiffs,) 4 vs.) No.) 3:23-cv-209-SPM 5 KWAME RAOUL, et al., б Defendants,)) 7 DIANE HARREL, et. al, 8 Plaintiffs, 9) No. vs.) 3:23-cv-141-SPM KWAME RAOUL, et. al, 10) Defendants. 11) 12 JEREMY W. LANGLEY, et al.,) 13 Plaintiffs, 14 vs.) No.) 3:23-cv-192-SPM 15 BRENDAN KELLY, et al.,) 16 Defendants.) 17 FEDERAL FIREARMS LICENSEES OF) 18 ILLINOIS, et al.) Plaintiffs,) 19 vs.) No.) 3:23-cv-192-SPM 20 JAY ROBERT "JB" PRITZKER, et) al.) 21 Defendants.) 22 23 24

Page 2	Page 4
1 The deposition of JEFFREY EBY, was	
2 taken by Deborah A. Duffy, CSR, RPR, pursuant to	APPEARANCES CONTINUED:
3 the applicable provisions of the Federal Code of	2 3
4 Civil Procedure and the rules of the Supreme Court	BECKER, HOERNER & YSURSA, P.C.
*	4 BY: Mr. Thomas R. Ysurua
5 of the United States of America, pertaining to the	5111 West Main Street
6 taking of depositions for the purpose of discovery,	5 Belleville, IL 62226
7 via Zoom videoconferencing, commencing at	Try@bhylaw.com
8 approximately 9:30 o'clock a.m. on the 18th day of	6
	Appearing on behalf of the Plaintiff,
9 July, of the year 2024.	7
10	8
11	9
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18	15
19	16
20	17
	18
21	19
22	20
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License No.: 084-002516	22
	23
24	24
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1	1 INDEX
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12 Firearms Licensees of Illinois and	EXHIBIT 3 86 10 EXHIBIT 4 151
12 Firearms Licensees of Illinois and Steven Randall Watt;	10 EXHIBIT 4 151
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12 Firearms Licensees of Illinois and Steven Randall Watt;	10 EXHIBIT 4 151 EXHIBIT 5 129 11 EXHIBIT 6 137
 Firearms Licensees of Illinois and Steven Randall Watt; ASSISTANT ATTORNEY GENERAL, SPECIAL LITIGATION BY: Mr. Christopher Wells 	10 EXHIBIT 4 151 EXHIBIT 5 129
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2 (Pages 2 - 5)

Page 6 Page 8 1 (Witness sworn.) 1 may hear an objection from Mr. Brady. Mr. Brady, 2 JEFFREY EBY, 2 you understand, is representing you in today's 3 deposition. Is that fair to say? 3 called as a witness herein, having been first 4 duly sworn, was examined and testified as follows: 4 A. That is fair to say. **EXAMINATION** 5 5 Q. So Mr. Brady may object, but you will 6 BY MR. WELLS: 6 generally still need to answer the question that I 7 Q. Good morning, Mr. Eby. My name is Chris 7 asked, if you understand the question. If you 8 Wells. I'm an attorney with the Illinois Attorney 8 don't -- if you don't understand the question, I 9 General's Office. I represent some of the 9 would ask you to state that and ask you to clarify. 10 defendants in this case: the Governor of Illinois. 10 If you answer the question I'm 11 J.B. Pritzker, Attorney General and the director of 11 going to assume -- and everyone reading the 12 the Illinois State Police, Brendan Kelly. 12 transcript will assume that you understood the 13 It is nice to meet you this 13 question as asked. Is that fair? 14 morning. Thank you for joining us. And just for 14 A. Yes, sir. 15 the record, your name is Jeffrey Eby, and that is 15 Q. The one exception that we may encounter 16 E-B-Y. Is that correct? 16 is if Mr. Brady specifically instructs you not to 17 A. Yes, sir. That is correct. 17 answer because of the attorney/client privilege. 18 18 Q. Mr. Eby, have you ever given a In that case, that is the 19 exception to the rule that you generally have to 19 deposition before? 20 A. No, sir. 20 answer. 21 21 Q. So you understand that the court Are you on any -- and I 22 reporter just had you take an oath, and you are 22 apologize for the intrusiveness of this question, 23 testifying here today under oath, and it is the 23 but it is a standard question in this type of 24 same as if we were in court. 24 circumstance. Page 7 Page 9 1 Do you understand that? 1 Are you on any medication today 2 A. Yes, sir, I understand. 2 that would prevent you from giving truthful 3 testimony? 3 Q. You've met the court reporter Debbie, 4 who is going to be helping us today. 4 A. No, sir. She is going to be taking down 5 5 Q. So as you know, we are doing this 6 everything we say. So in order to help her do her 6 deposition virtually today through Zoom. I'm in my 7 job and to make sure what you say is fairly 7 office in Chicago. Where are you located today? 8 recorded in the transcript, I'd ask a couple things 8 A. I'm in my home office in southern 9 from you: 9 Missouri. In Chadwick, Missouri. 10 First, if you would just wait 10 Q. Okay. And is there anyone in the room 11 for me to finish my question before you start 11 with you today? 12 answering, that would be much appreciated. Just so 12 A. No, sir. 13 she can get down the question and the answer. 13 Q. Are there any other applications --14 Since you've never had a 14 software applications open on your computer aside 15 from Zoom? 15 deposition before, I will go ahead and tell you --16 you will inevitably break this rule. 16 A. I will check real fast. I'm afraid I'll 17 Every witness breaks this rule. 17 close the wrong one and shut us down. 18 I will probably interrupt you at various times. We 18 Q. I understand. 19 will try to remind each other to slow down and 19 I've closed everything else. A. 20 pause and give each other a chance to finish. 20 Thank you very much. О. 21 21 I would ask you to keep the It is just the nature of the 22 depositions and sometimes Zoom doesn't help in that 22 other applications closed other than Zoom. Do you 23 respect. 23 have a smart phone on you? 24 As I'm asking you questions, you 24 A. I put it away, out of my reach.

3 (Pages 6 - 9)

Page 10	Page 12
1 Q. Okay. Great.	1 A. I'm a technical consultant. I currently
2 If you could just keep the smart	2 have a primary role with Trijicon, Incorporated out
3 phone away from you. The reason I'm asking these	3 of Michigan. I work with their business
4 questions is I would ask you, while we are on the	4 development office in Virginia.
5 record, the only way we should communicate is	5 Q. What does Trijicon, Incorporated, do?
6 verbally through Zoom. And your attorney should	6 A. They make optics; hunting scopes and
7 only communicate with you on the record verbally	7 for the military, they make machine gun optics,
8 through Zoom while we are on the record.	8 rifle optics, pistol optics, iron sights. They are
9 So if that changes, let me know	9 in the business for about 40 years now.
10 and we will address it. Despite being on Zoom,	10 Q. You said it is pronounced Trijicon?
	11 A. Yes, they made up the name. So it is
11 simulate as if we are in a room together if that12 makes sense.	· ·
	12 not a logical form of English.
13 A. Yes, sir.	13 Q. Can you spell it for us?14 A. T-R-I-J-I-C-O-N.
14 Q. Do you have any documents in front of	
15 you?	15 Q. You said Trijicon makes optics. Is that
16 A. No, sir.	16 optics for firearms?
17 Q. And if you have any problem with the	17 A. Yes, sir. And iron sights for pistols.
18 technology we are using today, please let me know.	18 Q. You mentioned that some of the optics
19 Please speak up and let the court reporter know.	19 that Trijicon makes are for hunting. So is that
20 Mr. Eby, the name of the lawsuit	20 for firearms used in the civilian market or sold in
21 you are being deposed is Barnett v. Raoul, Case	21 the civilian market?
22 Number 23 CV 209. It is pending in the U.S.	22 A. Yes, sir.
23 District Court. There are three other cases that	23 Q. Would that include AR platform rifles?
24 have been consolidated with the Barnett Case.	24 A. Yes, sir.
Page 11	Page 13
1 Harrel vs. Raoul 23141 Langley v. Kelly, 23 CV 192;	
2 and Federal Firearms v. Pritzker 23 CV 215. Do you	· · ·
3 know that the deposition you are giving today may	3 A. They make thermal optics for both
4 be used in all four of those cases?	4 civilian and military use. Machine gun optics.
5 A. I do know.	5 Missile so I'll say missile. They sell boosters
6 Q. And do you understand that the	5 Missile so I'll say missile. They sell boosters6 called "Gustav" is a rocket, but they have
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6 Q. And do you understand that the 7 plaintiffs in all four of those cases have 8 identified you as an expert witness?	 5 Missile so I'll say missile. They sell boosters 6 called "Gustav" is a rocket, but they have 7 submunitions that can be guided which make them 8 missiles
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Page 14	Page 16
Page 14 1 think it is roughly 70 percent civilian and 30	1 the military?
2 percent military. And with zero basis to make that	2 A. Limited because I also teach as a
3 number.	3 National Rifle Association instructor for pistols.
4 Q. That is just your best estimate?	4 Graduated tactical training course, but even those
5 A. Based on money, primarily. I understand	5 are limited in nature to the amount of weapons
6 how much revenue comes in from each side, and that	6 there are in the world.
7 would probably put it in the $70/30$, but that may	7 Q. You mentioned two civilian training
8 not be true on products. It may be more products	8 courses. What were those again?
9 towards one versus whether they are more expensive	9 A. Law enforcement tactical instructor.
10 than the civilian market than the military that	10 Q. And who provided that training?
11 buys under contract with Highbolt.	11 A. The National Rifle Association provided
12 Q. So your assessment of the 70 percent/30	12 that.
13 percent split is based upon your understanding of	13 Q. What weapons were utilized in that
14 where the revenue comes from?	14 training?
15 A. Yes, sir. Yes, sir.	15 A. We brought our own weapons, your
16 Q. Do you know if Trijicon is a member of	16 preferred pistol. I took a GLOCK 19, and your
17 the National Shooting Sports Foundation?	17 preferred rifle. I had one of the AR-15 variants
18 A. I do not know.	18 that I own.
19 Q. What assignment were you given in this	19 Q. Do you remember what variant
20 case?	20 specifically?
A. Expert witness on the law itself as I	21 A. I do not.
22 understand it. So I was presented the areas of the	22 Q. And what generally speaking, what
23 law that Governor Pritzker signed. "What do you	23 AR-15 variants do you own?
24 think?"	A. I have Larue tactical Daniel Defense. I
Page 15	Page 17
1 Q. Which law?	1 call them I bought several of these where I
2 A. Assault weapons banned law. I don't	2 bought independent components and assembled them
3 know the name. I did know it, but I can't recall	3 They don't really have a clear identity.
4 it.	4 Q. In addition to law enforcement I'm
5 Q. And did you look at the terms of the	5 sorry. Did I cut you off with others?
6 statute itself in preparing your expert reports?	6 A. There are, but I can't recall the names
7 A. I read through the list of the weapons	7 of them.
8 primarily and no guarantee that I even knew what	8 Q. Just approximately how many AR-15
9 those were.	9 variants do you own?
10 There were quite a few weapons	10 A. Approximately 22. And they are
11 on there.	11 comprised in different configurations. As an
12 Q. When you say there was no guarantee that	12 AR-15, with the 16-inch barrel, as an AR pistol
13 you knew what those were, what do you mean?	13 with a pistol base. As a pistol caliber carbine
14 A. Meaning, my expertise relies upon	14 unless my wife asks, at which point I have three.
15 weapons I had used in the military. And then a few	15 Q. And are you familiar with the National
16 civilian of the myriad of civilian options.	16 Firearms Act?
17 So I would also have to look	17 A. Yes, sir.
18 some of those weapons up using the internet for me	18 Q. Is it fair to say that some of those
19 to totally understand that.	19 weapons that you mentioned would be NFA, or
20 So I'm not an expert in all	20 National Firearms Act
21 weapons. I'm an expert in which I had to train	21 MR. BRADY: Objection. Calls for a legal
1 / Within the military	22 conclusion to the extent there is an NFA issue,
22 within the military.	(1, 1)
 23 Q. So is it fair to say your expertise is 24 specific to the weapons that you were trained on in 	23 which the witness understands may not be have24 the proper tax stamp. I would instruct the witness

	Page 18	Pag
1	not to answer and assert his Fifth Amendment.	1 During my tenure, I oversaw the
2		2 development of the combat marksmanship program
	could, Sean.	3 which included combat marksmanship instructor
	BY MR. WELLS:	4 training and combat marksmanship coach training
5	Q. I'm really just asking your	5 In addition, I oversaw the
	understanding. I'm not asking whether you are	6 development of the foreign weapons instructor
	complying with any law or not complying.	7 course and the foreign weapons coaches course.
8	I just want to know if you have	8 That lasted for a period of three years.
-	an understanding as to whether some of the firearms	9 I've been an instructor for
	you have possessed would be classified as NFRA	10 small arms, for machine guns, missiles, rockets,
	firearms?	11 motors, rifles, grenade launchers and explosives.
12	MR. BRADY: I will renew my objection. The	12 Q. And I believe we were talking about two
	witness has a right to be instructed on his rights	13 specific civilian training courses. You mentioned
	to answer that if there is an issue, so	14 military experience. You talked about one of ther
	BY MR. WELLS:	
15	Q. Do you understand?	15 What was the second civilian training course you 16 received?
17	A. Do I understand?	
18		17 A. Basic pistol course.18 Q. And was that a course from the National
-	Q. Yes. Do you understand? Are you able to answer?	19 Rifle Association?
20		20 A. Yes, sir.
	NFA because I have no weapons that meet that	
	description. I have no short-barreled weapons. I	22 that you've received that you think are relevant to
	have no any other weapons where you can stick a	23 your testimony?24 A. Not with certifications. no.
24	pistol on and reclassify a weapon simply by that	· · · · · · · · · · · · · · · · · · ·
1	Page 19	
$\begin{vmatrix} 1\\2 \end{vmatrix}$	small little hand grip in the front. I have deliberately avoided	 Q. What materials did you review in 2 preparing your initial expert report in this case?
	-	
	having any NEA items outside of suppressors which	
	having any NFA items outside of suppressors, which	3 A. I reviewed field manuals and operational
4	I have six. And those were all registered.	3 A. I reviewed field manuals and operational4 manuals, primarily written by the Army as they an
4 5	I have six. And those were all registered. Q. Understood. Thank you, Mr. Eby.	 A. I reviewed field manuals and operational 4 manuals, primarily written by the Army as they at 5 well funded for the development of those.
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4 5 6 7 8	I have six. And those were all registered. Q. Understood. Thank you, Mr. Eby. And what I'm trying to understand because you make different recommendations later in the report and	 3 A. I reviewed field manuals and operational 4 manuals, primarily written by the Army as they at 5 well funded for the development of those. 6 I read historical reports and 7 experiments, a secretary defense report following 8 Vietnam. My initial days of Vietnam primarily
4 5 6 7 8 9	I have six. And those were all registered. Q. Understood. Thank you, Mr. Eby. And what I'm trying to understand because you make different recommendations later in the report and considerations about what rules might apply to	 A. I reviewed field manuals and operational 4 manuals, primarily written by the Army as they at 5 well funded for the development of those. 6 I read historical reports and 7 experiments, a secretary defense report following 8 Vietnam. My initial days of Vietnam primarily 9 that is quite a large sum of publications just in
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	Page 22		Page 24
1	BY MR. WELLS:	1	limited as they should be. That is not his role.
$\begin{vmatrix} 1\\2 \end{vmatrix}$	Q. Did you review the expert reports of any	2	Q. What is the role of an officer, then?
	other experts in this case?	3	A. He is to manage the forces that provide
4	MR. BRADY: Objection. Vague as to when.	-	the fight against the opponent. And he does that
5	MR. WELLS: If you understand, you can answer		very well.
6	THE WITNESS: Yes, sir, I did.	6	Those forces are air, sea, land,
-		7	
8	Q. Which expert reports did you review that		pressure on the opponent. His role is not to
9	are related to this case?		identify characteristics of employment of
10	A. Segments of Andrews Tucker and Lucier		individual weapons.
-	or something very similar to that. Butchering the	10	Q. How does a commander make decisions
	name.		_
			about what particular forces to deploy if they
13	Q. Were there any other expert reports or		don't understand the underlying weapon systems?
	segments of expert reports that you reviewed in your work on this case?	14	MR. BRADY: Objection. Calls for speculation.
	A. I don't recall.	15	THE WITNESS: I would be speculating on his
16			training and education that got him prepared to do so. Because I didn't undergo that level of
17	Q. You mentioned expert report from		6
	Mr. Tucker. Do you know Mr. Tucker?		training.
19	A. Oh, yes, sir.		BY MR. WELLS:
20	Q. Who is Craig Tucker?	20	Q. How is your role as a Marine gunner
21	A. Craig Tucker was my commanding officer		distinct from the role of your commanding officer?
	in 1999 to late 2000. He was the lieutenant	22	A. I was an advisor with no authority.
1	colonel then. I was recently a marine gunner,	23	Q. Can you explain more of what that means,
24	which is a commissioned officer. Served with him	24	that you were an advisor?
	Page 23		Page 25
1	in 29 Palms at 2nd Marines, 2004 and 2005. Then	1	A. I can explain what he tasked me to do,
	Colonel Tucker was my commanding officer as we		if that would help. He would inform me to create
· .	served together in Iraq in Al Anbar Province.		training programs for each of our individual
4	Q. What is your opinion of Mr. Tucker?		weapons. Not only on the loading unloading
5	MR. BRADY: Objection. Vague. Calls for		characteristics nomenclature but on the employment
6	narrative. You may answer.		of them individually.
	THE WITNESS: I served with Craig Tucker. He		And then he would task me
1	is an honorable outstanding combat commander. I		to create training events that would group weapons
	have a very high regard for him.		and systems and people together in ever-escalating
	BY MR. WELLS:		sizes. From fire team to rifle squad, to platoon,
11	Q. What is your opinion of Colonel Tucker's		to company, battalion and regiment.
	knowledge of military small arms?	12	And I would create these
13	A. That is not so high. He used me to		training events to employ the best practices for
	answer those questions on all occasions.		weapon system and grouping, so we could evaluate
15	I don't believe he has had any		our readiness with his participation. We would
	deliberate training and certifications on small		identify weakness through those training events and
	arms other than holding it and using it. And even	17	6 6
	that is limited.		shortfalls.
19	It is very common for an officer	19	Q. So I want to come back to some of that
1	to not hold the rifle past the rank of lieutenant.		here in a few minutes. But before I do that, I
	And, for instance, 30 years of service maybe you		just want to be clear. The initial report that you
	hold the rifle for three years of that, and use a		prepared in this case was prepared with
	pistol. So his knowledge and expertise on that		Mr. Musselman. Am I saying that correctly?
124	rifle, the employment, the instruction are very	24	A. You are.

	Page 26		Page 28
1	Q. How do you know Mr. Musselman?	1	.357 Magnum. Pistols. Ruger 14 was employed in
2	A. He was also a Marine gunner close		that engagement.
	friends and still are.	3	I think he was leaning more
4	Q. Can you tell me how it came to be that		towards how hard it is to put an opponent down.
	the two of you prepared an initial report together?		How resilient the human body is.
6	MR. BRADY: Objection to the extent it calls	6	My comment to him was neither
	for communication with counsel. You may answer.	-	one of us are ballisticians or forensic experts,
8	THE WITNESS: I think Mr. Brady is the one		and it is really out of our lane to speak so
	that brought Mr. Musselman in. Mr. Musselman and		heavily in the lethality role when there are so
	met at a retirement ceremony in Washington, D.C.,		many variables involved.
	for a friend of ours.		BY MR. WELLS:
12	We had spoken that we had both	12	Q. In formulating your opinions as
	been requested by Mr. Brady to write statements.		reflected in your expert report and your rebuttal
	We each had a divergent path on what that statement		report, did you rely on any evidence from the
	would look like. And I was not a fan of the		civilian world?
	direction Mr. Musselman wanted to go into.	16	MR. BRADY: Objection. Vague.
17	So we agreed to write individual	17	THE WITNESS: Most likely I did. Only because
	separate statements and we would communicate with		I read a lot. I study both civilian and military
	Mr. Brady as we wrote these individual statements,		engagements. From not only weapons employed, the
	but at the end of the day, I believe Mr. Brady		bullets that are used. The human performance of
	preferred my statement better, and Mr. Brady handed		the body. The body alarm response, and how that
	it to Mr. Mussleman to corroborate and look for any		alters your memory of an event if you were close.
	errors.	23	So it would be impossible for me
24	So to be fair, it was my		to tell you the levels of influence of all writings
	Page 27		Page 29
1	statement that Mr. Mussleman witnessed, approved	1	from all natures as I certainly didn't shelter
	and corroborated. I think he added one line into		myself only to the military world, when there is
3	it on the addition of a 149 and hand rifle. I		tons of evidence or opinions in the civilian world.
4	forgot to mention. And the rest of that was my	4	Yes, I did, but if I had to list
	statement.	5	those out I wouldn't be able to do so.
6	BY MR. WELLS:	6	
7		0	BY MR. WELLS:
· ·	Q. When you say you were not a fan of the	7	
8	Q. When you say you were not a fan of the direction that Mr. Mussleman wanted to go, what	7	Q. Did you review any publications
	Q. When you say you were not a fan of the direction that Mr. Mussleman wanted to go, what direction did Mr. Mussleman want to go?	7 8	
	direction that Mr. Mussleman wanted to go, what	7 8	Q. Did you review any publications discussing the lethality of firearms used in mass
9 10	direction that Mr. Mussleman wanted to go, what direction did Mr. Mussleman want to go?	7 8 9 10	Q. Did you review any publications discussing the lethality of firearms used in mass shootings?
9 10 11	direction that Mr. Mussleman wanted to go, whatdirection did Mr. Mussleman want to go?A. I think he was leaning more towards	7 8 9 10	Q. Did you review any publicationsdiscussing the lethality of firearms used in massshootings?A. Not for this event, no. That would have
9 10 11 12	direction that Mr. Mussleman wanted to go, whatdirection did Mr. Mussleman want to go?A. I think he was leaning more towardsarticles from civilian world and use of guns and	7 8 9 10 11 12	Q. Did you review any publicationsdiscussing the lethality of firearms used in massshootings?A. Not for this event, no. That would havebeen previous to over the last 40 years.
9 10 11 12 13	direction that Mr. Mussleman wanted to go, whatdirection did Mr. Mussleman want to go?A. I think he was leaning more towardsarticles from civilian world and use of guns andmass murders, and I disagreed that that was my	7 8 9 10 11 12	 Q. Did you review any publications discussing the lethality of firearms used in mass shootings? A. Not for this event, no. That would have been previous to over the last 40 years. Q. Why did you not review those types of
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 9 10 11 12 13 14 15 16 	direction that Mr. Mussleman wanted to go, what direction did Mr. Mussleman want to go? A. I think he was leaning more towards articles from civilian world and use of guns and mass murders, and I disagreed that that was my strength and my training. And I didn't want to start quoting what was happening outside of the military as that would just be pure opinion.	7 8 9 10 11 12 13 14 15 16	 Q. Did you review any publications discussing the lethality of firearms used in mass shootings? A. Not for this event, no. That would have been previous to over the last 40 years. Q. Why did you not review those types of materials? A. Just time. I had plenty to research to find those historical studies that I knew existed,
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8 (Pages 26 - 29)

	Page 30		Page 32
1	Vague.	1	about more about your Marine Corps experience.
2	THE WITNESS: I looked for sources that I knew	2	When did you join the Marine
3	I had read before in order to quote them and	3	Corps?
4	reference them.	4	A. I went on active duty in June of 1982.
5	BY MR. WELLS:	5	Q. And I believe you mentioned earlier that
6	Q. Would reports of lethality of firearms	6	you became a Marine gunner in 1999. Is that right?
7	and civilian mass shootings be relevant to an	7	A. That is correct.
8	expert in your field?	8	Q. If you could just describe for me
9	MR. BRADY: Objection. Vague. Calls for	9	generally your roles in the Marine Corps from 1982
10	speculation.	10	to 1999?
11	THE WITNESS: It is my opinion that most	11	A. I joined the Marine Corps, and I was
12	reports I see outside of FBI are not scientifically	12	assigned as an assaultman, which is a demolitions
	studied, evaluated, controlled for variables.		man with a rocket capable of reducing bunkers.
14	When the military does a report,	14	I served in that role no more
15	it is very much a fifth-grade science project where	15	than nine months before being accepted into an
	they control for variables, evaluate the outcomes		anti-tank missile course that was on-the-job
	and provide me something that I can have confidence		-
	in instead of a very wordy opinion piece.		trained by the people that already knew. I stayed
19	So other than FBI documents,		in anti-tank missile until 1987. In 1987 I was
	which are very few that I've had access to,		sent out on embassy duty for Brussels Belgium and
	majority of my opinion has been shaped by military		Dehli, India. Eighteen months in each one of
	studies.		those. Returning back to the fleet Marine Corps in
	BY MR. WELLS:		1990 where I joined, second Battalian, 8th Marine.
24	Q. Did you review any FBI reports	24	I was assigned as a machine gun
	Page 31 discussing civilian mass shootings in preparing		Page 33 section leader initially and then moved over to
2 3 4 5 6 7 8 9 10 11 12 13 14 15	•	2 3 4 5 6 7 8 9 10 11 12 13 14 15	section leader initially and then moved over to scout sniper platoon. It is the scout sniper, staff NCO, staff non-commission officer in charge. And then I was assigned in 1993 to fleet anti-terrorism security team company out of Norfolk, Virginia, where we were the world response force for the chief of naval operations. I had a 50-man platoon with our own mortars, rockets. Every man had a rifle and a pistol. I had sniper systems. I had light machine guns as part of that 50-man platoon. I did that for three years. And in 1996 I was reassigned to be the chief mortar instructor at school of infantry, Camp Lejeune. Eighteen months later, I
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			D (1)
1	Page 38 available to use so I used it.	1	Page 40 light machine guns. The Barrett sniper rifle. The
$\begin{vmatrix} 1\\2 \end{vmatrix}$	Q. What kind of M4?		M110 semi-automatic sniper rifle. The M16A4, were
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	-		all I had shotguns many times, but most of those
.			· ·
4	6		were in training scenarios I created outside of
5			Al-Asad to train the force that was going to use
L _	floating rail, a slip lever with a safe semi-auto.		them.
7	Q. You mentioned another combat experience	7	Q. So I understand that a lot of the
	in which you joined other people's fight. What		discharges took place in training, but in terms of
	type of weapon would you be using in that combat?		combat, the two weapons you fired in combat were
10	A I also had an M4 at that time with a		the M4 rifle and M240 machine gun. Is that fair to
11	5 I		say?
12	In these engagements, someone	12	
1	from a position of defense had shot at marines.	13	Q. And when you fired the M4 rifle in
1	And marines immediately cordoned the area and	14	combat, what setting was the rifle in?
15	surrounded it to prevent that individual or	15	A. Always in semi-auto.
16	individuals from leaving.	16	Q. So in your report, you mentioned a
17	On these occasions we did not	17	variety of different weapon systems that you became
18	try to enter. We isolated the objective when we	18	familiar with and became an expert in as a Marine
19	brought something heavy to destroy the building or	19	gunner. And you described some of them as
20	destroy the bunker or destroy hideaway as a safer	20	individual and some of them as a crew served.
21	means for us to eliminate that threat without	21	What is the difference between
22	having to get into the room and get shot in the	22	an individual and a crew-served weapon?
23	face.	23	A. Every Marine is assigned an individual
24	Q. Other than the M4 rifle, are there any	24	weapon whether that is an M4, M16 A4 or M9 pistol,
	Page 39		Page 41
1	other weapons that you discharged in combat?	1	now replaced with an M17 pistol.
2	A. M240 machine gun in position. Only to	2	Crew-server weapons are those
3	relieve the marine that burned himself with hot	3	medium machine guns it starts with a medium
4	brass. That machine gun was on a military Humvee.	4	machine gun. It is a three-man group. Those three
5	He was suppressing the whole side of the building	5	men be assigned to that medium machine gun, yet all
6	with traversing fire just to keep somebody from		of them have individual weapons as well.
7	stepping up into a window or shoot out of it.	7	So they will all have either
8	For about one minute, I relieved	8	pistol the gunner will usually get the pistol.
9	him and continued suppressing while he got the	9	The assistant gunner and the team leader will get
	brass out of his flak jacket. And he was ready to		an M4 or M16A4. That transitions over time.
	get back in position, and I gave him the position		Meaning what we assign them changes by the year as
	back.		it progresses.
13	Q. So that was one minute of suppression	13	If you were to ask me what their
	fire? Is that right?		weapon was in 1999, it was an M16A4, but by 2003 i
15	A. Yes. Many times, not engaged in combat,		was an M4A1, and by 2010 it was M27.
	where I fired weapons, and I did a lot of training	16	-
	to teach the marines how to work as a group because		technology progressed, and as acquisitions changed.
1	you are always doing pick-up teams.		So crew serves are more than one individual
19	People are changing out		assigned to a weapon that requires a crew to
1	regularly and you are always having to reinstill		operate. Three different machine guns. Two
	that level of knowledge of how they all need to		different mortars. One two missiles, are all
1	work around each other.		crew weapons.
23	So heavy machine guns. M2 heavy	22	Q. In your report, you specifically list or
1	machine guns. M240 medium machine guns. M249		you identify two rifles, three sniper rifles, two
1	machine guns. 112+0 meaturn machine guns. 11249	~ +	jou raenary two mices, and simple mices, two

Page 42	Page 44
1 grenade launchers, four different machine guns, two	1 countries that are going to show up in a Toyota
2 mortar systems, four rocket systems, two anti-tank	2 Highlander. So it is limited in nature where we
3 missile systems, and a 25 Bushmaster canon.	3 can use it.
4 Do you recall that part of your	4 Q. Can you imagine a scenario in a civilian
5 report?	5 setting where a civilian would use a Barrett M107
6 A. I do.	6 for self-defense?
7 MR. BRADY: Objection. Vague.	7 MR. BRADY: Objection. Vague. Calls for
8 BY MR. WELLS:	8 speculation. Incomplete hypothetical.
9 Q. When you mentioned the two rifles, what	9 THE WITNESS: Yes, I could. And it wouldn't
10 model of rifles were you referring to?	10 be the best solution, but if that was the only
11 A. M4A1, M16A4.	11 solution, that would be the only thing he could
12 Q. What were the fire settings on the	12 use. And there are those who are long-range
12 Q. what were the fire settings on the 13 M4-A1?	13 precision shooters. That may be his only weapon.
14 A. Safe, semi-automatic and burst.	14 So I will tell you now, my
15 Q. What were the fire settings on the	
16 M16-A4?	15 favorite weapon is the one I grab first.16 BY MR. WELLS:
	17 Q. You said it wouldn't be the best
	18 solution. Why wouldn't it be the best solution?
19 A. It fires a three-round burst every time	19 A. It is extremely cumbersome, heavy,
20 you pull the trigger.	20 awkward. Low in portability. Heavyweight. Really
21 Q. You mentioned three sniper rifles in	21 requires a prone shooting position, which may not
22 your report. What models of sniper rifles?	22 be applicable at the time of the engagement
23 A. Initially the M40A5, at the time I	23 depending where you are at.
24 think. It could have been an A4, but it was a bolt	24 So it is not what I would
Page 43	Page 4.
1 action rifle. The M110 semi-auto special	1 recommend, but if it is the only one you have.
2 application rifle. And then the Barrett M107	2 Q. If you were in a home setting, would you
3 special application scoped, which was a 50 caliber.	3 recommend using an M107 for a Barrett M107 for
4 We honestly don't call that a	4 self-defense?
5 sniper rifle. It is in the sniper platoon, but it	5
6 is special application scoped rifle. It is not	6 MR. BRADY: Objection. Vague incomplete
7 very accurate. It is designed to shoot equipment	7 hypothetical.
8 primarily vehicles.	8 THE WITNESS: No, sir. I would not.
9 Q. Do you know if any of those three sniper	9 BY MR. WELLS:
10 rifles are available in the civilian market?	10 Q. Why not?
11 A. All three of them are available on	11 A. It is heavy. It is cumbersome. It
12 civilian market. All three are semi-auto only.	12 requires prone shooting position. It is very
13 Q. And I believe you said that what was	13 low-volume ammunition. Not very portable. Not
14 the Barrett model again?	14 maneuverable. Not made for small-stature people.
15 A. At the time it was M107.	15 Not only for its weight and length, and limited
16 Q. And what type of application was the	16 ammunition, and being limited ammunition, it has a
17 Barrett M107 used for in the Marine Corps?	17 harsh recoil.
18 A. Shoot at engine blocks. Shoot at	18 THE COURT REPORTER: Did you say horse.
	19 THE WITNESS: Say that again, please.
19 radiators. Try to stop mobility for opposing	
20 vehicles. It is actually very limited if you are	20 THE COURT REPORTER: You said it has a
	20 THE COURT REPORTER: You said it has a 21 harsh
20 vehicles. It is actually very limited if you are	
20 vehicles. It is actually very limited if you are21 against a peer threat because peer threats will	21 harsh

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	Page 46	Page 4
1	Q. Would use of a Barrett M107 rifle in a	1 speculation.
2	home setting for self-defense create the risk of	2 THE WITNESS: They are available only through
	overpenetration?	3 NFA effort. You would have to locate them and have
4	MR. BRADY: Objection. Vague. Calls for	4 a special buy.
5	speculation. Incomplete hypothetical.	5 BY MR. WELLS:
6	THE WITNESS: I would presume a significant	6 Q. Is one person able to carry an M203
7	amount of overpenetration, yes.	7 attachment grenade launcher?
8	BY MR. WELLS:	8 A. Yes, sir.
9	Q. Why would you presume a significant	9 Q. And is one person able to carry a
10	amount of overpenetration?	10 beltmark 19 grenade launcher?
11	A. That bullet can travel 7,200 meters	11 A. No, sir. That is a three-man crew
12	without obstruction when launched at a 40-degree	12 requirement.
13	angle with sea level, 72 degrees, no humidity.	13 Q. You mentioned four different machine
14	That has a lot of distance behind it.	14 guns, that as a marine gunner, you had to be an
15	So because it has such a long	15 expert in. What were those four different machine
16	distance behind it, it has the potential to	16 guns?
17	penetrate easier than a lower-velocity smaller	17 A. M249 light machine gun. M240 Bravo
18	bullet.	18 medium machine gun. The M2 heavy machine gun. And
19	Q. How does the velocity of a bullet affect	19 the Mark 19, heavy grenade launcher.
20	the distance it can travel?	20 Q. M249 light machine gun, can one person
21	MR. BRADY: Objection. Vague. It calls for	21 carry that?
22	speculation.	22 A. Yes, sir.
23	THE WITNESS: The velocity of being able to	23 Q. The M240 Bravo medium machine gun, can
24	fire, temperature, altitude. All of those affect	24 one person carry that?
	Page 47	Page 4
	I age 47	
	how far the bullet can travel.	1 A. One person can carry it. It is a
	how far the bullet can travel. BY MR. WELLS:	1 A. One person can carry it. It is a 2 three-man crew, so the ammunition can be brought
2 3	how far the bullet can travel. BY MR. WELLS: Q. And how does velocity affect the	 A. One person can carry it. It is a three-man crew, so the ammunition can be brought with it.
2 3 4	how far the bullet can travel. BY MR. WELLS: Q. And how does velocity affect the wounding capacity of a bullet?	 A. One person can carry it. It is a three-man crew, so the ammunition can be brought with it. Q. In the event two members of the
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	Page 50		Pag	e 52
1 yes, he could employ it by hir		A.	A. Yes. Move it, not likely.	
2 Q. You mentioned four			-	
3 rocket systems, as a Marine g	-	to you	u, Mr. Eby, at the outset. If you need to	
4 be an expert in?	•	•	a break at any point, you should let me know	•
5 A. The M72 light weapo			The only thing I would ask if	
6 AT4 rocket. The SAAB Bofe		there i	is a question pending, you just answer the	
7 different variants. So the M3			tion pending before we take a break.	
8 are Carl Gustav rockets.	8	1	So we've been going a little	
9 They are Carl Gu	stav depending	under	r an hour. Would you like to continue or wo	uld
10 on what we decide to buy 7 or			ike to take a break?	
11 ammunitions that are availabl		•	I'm okay to continue.	
12 whereas the M72 and AT4 co			-	
13 rocket, only.		going	g to cover just some basic concepts with you.	
14 Q. Is the M72 light anti-			t is a rifleman?	
15 that could be carried by one in	-	A.	A. Rifleman is an individual that is armed	
16 by one individual?		with a	a rifle who has a duty and responsibility to	
17 A. Yes, sir.			t a point targets under the command of a fire	
18 Q. Is the AT4 rocket sys			leader or the commander of the squad leader	
19 be fired by one individual and		Q.	2. Let me just show you something here.	
20 individual?	20		7. Mr. Eby, I've put up on the screen a	
21 A. Yes, sir.	21	docum	ment with the heading "Joint reported experts	s,
22 Q. Is the Gustav M3 a w	veapon that can be 22	witnes	ess, Jeff Eby and Michael Musselman." Do y	/ou
23 carried and fired by a single in	ndividual? 23	see that	hat?	
A. It is a crew weapon of	of two, but, yes, it 24	A.	A. I do.	
	Page 51		Pag	e 53
1 is can be carried and fired by	one individual.	Q.	2. Have you seen that document before?	
2 Q. Can the Gustav M4 a	llso be carried and	A.	A. I have.	
3 operated by a single individua	al?	Q.	Q. What is it?	
4 A. Yes.	2	A.	A. My report.	
5 Q. You mentioned two a	anti-tank missile	Q.	Q. Okay. It is a 305-page document, which	
6 systems. What are those miss	sile systems?	includ	ides both the report and the exhibits as	
7 A. Initially there were the	rree. The dragon	submi	nitted from your counsel.	
8 missile, but they are obsolete	and replaced by the		So I'm just going to scroll	
9 Javelin anti-tank missile. Aga	e e	throug	igh it. I'm not going to go through the whole	
10 happened. The again, anoth	her exchange happens, 10	thing,	g, but just the report section. Does this look	
11 the tube launched optically tra	acked wire command 11	like it	it is the report that you prepared and drafted	
12 link ATM, the was replaced b	by the Saber anti-tank 12	in this	is case?	
13 missile.	13		A. It does.	
14So at the end of t	-		MR. WELLS: So for the sake of the record, I	'd
15 still had two. Either the drage			he court reporter just to note that this is	
16 went from Javeline to Saber.		Exhib		
17 Q. And can those missil			(Deposition Exhibit 1 was marked	
18 just described be carried and o			for identification.)	
19 individual?			MR. WELLS:	
20 A. No, sir. Those are ex			2. It is the expert report of Jeffrey Eby	
21 cumbersome and, again, a thr			Michael Musselman. And as I'm scrolling	
22 Q. If two members of th		-	igh here on page 14 of the PDF, are you	
23 incapacitated, can that remain	0 1		liar with this document?	
24 that weapon system?	24	Α.	A. I am.	
			14 (Pages 50 -	

14 (Pages 50 - 53)

Page 54	Page 56
Q. And what is it?	1 A. I don't recall the date.
A. It is the FM350 Operations.	2 Q. Did you personally draft the contents of
Q. And these are the exhibits to your	3 this document?
report. Is that fair to say?	4 A. Yes, sir, I did.
	5 Q. And when we looked at the first page of
	6 this document titled "Expert Witness Rebuttal
	7 Report of Jeffrey Eby," you didn't initially recall
	8 it. Do you recall that document now?
	9 A. I recall pieces of it. What confused me
	10 was the expert witness rebuttal. That part speaks
-	11 to somebody else. Altered pieces of this. I would
	12 have to read the entire document to see what was
	13 altered. Because these look like my words on the
	14 front of it, but that doesn't look like maybe it
	15 does.
	16 I guess that isn't somebody
•	17 rebutting me. That is my rebuttal statement. I
	18 just didn't recall the title of it.
- ·	19 Q. So the title indicated to you that there
	20 may have been some altercations of the document
	21 after you reviewed it last?
•	
in part, it looks like I in being	24 I initially read that incorrectly thinking that was
Page 55	Page 57
	1 somebody else's rebuttal to me, and they were
	2 listing quotes from me.
	3 This appears not to be the case.
	4 This is my statement in entirety.
	5 MR. WELLS: Okay. I'd like to mark this
Q. Does page 4 look familiar to you?	-
	6 Exhibit 2. It is expert witness rebuttal report of
A. Yes, sir.	6 Exhibit 2. It is expert witness rebuttal report of7 Jeffrey Eby.
A. Yes, sir.Q. Okay. And Page 6. Do you see at the	 6 Exhibit 2. It is expert witness rebuttal report of 7 Jeffrey Eby. 8 (Exhibit 2 was marked for
A. Yes, sir.Q. Okay. And Page 6. Do you see at the bottom of Page 6, it says "S, slash Jeffrey Eby."	 6 Exhibit 2. It is expert witness rebuttal report of 7 Jeffrey Eby. 8 (Exhibit 2 was marked for 9 identification.)
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 A. Yes, sir. Q. Okay. And Page 6. Do you see at the bottom of Page 6, it says "S, slash Jeffrey Eby." Do you see that? A. Yes, I do. Q. Did you input your signature in that 	 6 Exhibit 2. It is expert witness rebuttal report of 7 Jeffrey Eby. 8 (Exhibit 2 was marked for 9 identification.) 10 BY MR. WELLS: 11 Q. Mr. Eby, this is both your expert report 12 and an underlying exhibit, which is 803-page PDF.
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	 Q. And what is it? A. It is the FM350 Operations. Q. And these are the exhibits to your report. Is that fair to say? A. Yes, sir. Q. I'm just going to scroll to the end here. Does this look like the last exhibit in your report, PDF 45, which has been marked as Exhibit 5 I'm sorry Exhibit 1? A. Yes. Q. So I've just marked here your report as Exhibit 1. I would just like to now show you a different document. Okay? Do you see a document labeled "Expert Witness Rebuttal Report of Jeffrey Eby" on the screen now? A. I see that. Q. Are you familiar with this document? A. Not that I can recall. Q. I'm scrolling through the second page here of this report. Does this page look familiar to you? A. No. Let me read it. In part, it looks like I'm being

1	Page 58	Page 60
1	BY MR. WELLS:	1 changed after my service. I don't recall what they
2	Q. So I'm moving to Page 111 of the PDF,	2 are right now.
3	which it has been marked as Deposition Exhibit 2	3 Q. In preparing your rebuttal expert report
4	and within the PDF is labeled as Exhibit 4 to	4 why did you choose to rely on this document as
5	Mr. Eby's rebuttal expert report.	5 opposed to Marine Corps publication?
6	Looking at page 111 of the PDF,	6 MR. BRADY: Objection. Misstates testimony.
7	do you recognize this document?	7 THE WITNESS: I had seen a reference of the
8	A. I do.	8 same number.
9	Q. What is it?	9 I believe it was FM-22.9
10	A. It is a marksmanship publication titled	10 referred to with a statement that I disagreed with.
11	"Rifle Carbine" written by the Department of the	11 At the most I disagreed with it for two reasons.
12	Army.	12 The most common and best method of engagement was
13	Q. Does it have a number at the top there	13 rapid semi-automatic fire on engagements. And I
14	that says TC322.9?	14 realize how dangerous that statement was if we were
15	A. Yes, sir. Training circular is what TC	15 to fight Russia, China, Iran or North Korea.
16	means. Training circular 22.9.	16 In the last 70 years we have
17	Q. And are you familiar with this document?	17 been fortunate to fight only third-world countries
18	A. I have read this document, yes.	18 that cannot match us with manpower.
19	Q. What is it?	19 In all engagements since then,
20	A. It is a marksmanship publication	20 we had a five-to-one minimum ratio of our forces
21	designed to teach the best practices on an	21 against theirs. And we even increased that at
22	individual training program for a rifle and a	22 point of contact by matching forces together.
23	carbine.	23 So the reason we've been able to
24	Q. What function does this document serve	24 use semi-auto only for so long is because the
	Page 59	Page 61
1	in the Army?	1 opponents we have faced since the Korean War, have
2	A. It is the beginning stages of	
3	6 6 6	2 been non-peer. They didn't equal us in manpower.
5	instruction for a weapon program usually in	2 been non-peer. They didn't equal us in manpower.3 They didn't equal us in armor. They had no air
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	Page 62		Page 64
1	to if automatic fire was eliminated from future	1	different conclusions than somebody before 2005.
	military weapons.	2	Q. And when you were in the military in
3	Q. Is it fair to say that during your time		that time frame, so in the first decade of the 21st
	in the military you were a vocal proponent of		century, were there some in the military that you
	automatic fire?		encountered that were advocating taking away
6	A. Yes, sir.		automatic fire capability on M4/M16 rifles?
7	Q. Did others in the military disagree with	7	A. I recall nobody trying to take it away
	that view?		during my time of service.
9	MR. BRADY: Objection. Calls for speculation.	9	Q. So I'm just trying to understand the
10	THE WITNESS: It is calling for speculation,		comments you were making previously that there was
1			
	but I will say there is a time phase.		based on the the way the war in Iraq changed,
12	Prior to 2001, there was no		there was a shift in viewing semi-automatic versus
	disagreement. After I'm sorry. 2003. When we		automatic fire. Is that what you were saying?
	went into Iraq, and we did automatic fires	14	A. Yes, sir. And it was about every six
	throughout Iraq through 2003, '04 and '05. The		months. The nature of the war changed from more
	automatic fire tended to go away after 2005. We		control literally with lawyers. Rules of
	went into more a guard force, police-style		engagement changed significantly.
	behavior.	18	So to the point where if
19	We were literally reading		somebody jumped out of a building to shoot at me
	Miranda rights to people we captured. It became		and then dropped his weapon, I was no longer
1	we were an extension of a large police force.		allowed to engage him.
22	So the nature of the war changed	22	Prior during my time frame we
1	after 2005 to low-intensity police style		would have killed him on the spot. And be careful
24	engagement. We would have been better off sending	24	what type of path I lead you on here too, because
	Page 63		Page 65
	police forces, as a matter of fact, instead of		predominantly, 99 percent of the time, we never saw
	military as our overreaction led to more harm and		an individual to shoot at.
	problems.	3	We received fire from a
4	So probably from 2005 on, the		position, and we suppressed that position. So the
	experience of the force led to poor conclusions of		stupid people all got killed very quickly in the
	what we needed. They would have taken away the		war, and they learned to take cover and hide and
	body armor, taken away the automatic fire. They		they didn't shoot at us from a position where they
	would have moved the machine guns off the table for		could get shot back very easily.
	use and probably very much limited the use of	9	So that is why automatic fire
1	machine guns, because they created more harm.		was critical. That is why machine guns were
11	I mean you shoot at one guy and		critical, but there was a point in that 2006, '07,
	kill 10 civilians in the process, and then you		'08, we were limiting the use of machine guns. You
	have 10 people trying to kill you tomorrow. Likely		were not allowed to fire. You had to get direct
1	so.		approval from a commander to engage somebody that
15	So the nature of the war		was shooting at you, if your only tool to shoot
	changed. So I would say today, after 20 years of		with was a machine gun.
	war, you probably had a force that would be	17	As we were restrained, and
18	perfectly fine eliminating the automatic fire		restraining the force, so as to do no harm, and
	foolishly and hindering our ability to fire.		kind of create a police-style behavior of trying to
19		20	capture that individual we call it a targeting
19 20	Q. When you say "They would take away		
19 20 21	automatic fire," who is "they"?	21	board. We would write out a whole list and spend a
19 20 21 22	automatic fire," who is "they"? A. Anybody with time in the service, whose	21 22	board. We would write out a whole list and spend a week with the lawyers and the prosecuting
19 20 21 22 23	automatic fire," who is "they"?	21 22 23	board. We would write out a whole list and spend a

17 (Pages 62 - 65)

Page 66	Page 68
1 nature of the war as it was changing.	1 manpower and force to overwhelm them with slow
2 By the time you get to 2010,	2 fire, sustained fire. We would have anywhere from
3 there was no combat by us. We were guarding our	3 10 to 50 upon one opponent, and still have trouble
4 security positions while the Iraqis were doing the	4 capturing them because of the rules of engagement
5 killing.	5 that prevented us from shooting while we are
6 Our mission had evolved to	6 wearing heavy body armor, and weapons and ammo.
7 training the Iraqis or Afghans and let them go	7 General Mattis coined quite a phrase, "Do no harm."
8 fight.	8 And what he meant by that "Do no harm" is don't
9 Q. I believe I heard you say earlier that	9 hurt one civilian in your effort to attack ten
10 automatic fire created more harm than it solved in	10 opponents. Because one civilian will have a family
11 the latter stages of the Iraq conflict. What did	11 that will fight you again later.
12 you mean by that?	12 So General Mattis understood
13 MR. BRADY: Objection. Misstates testimony.	13 that low-intensity conflict more than anybody else.
14 THE WITNESS: I meant just that.	14 It was really hard to ramp down the marines to that
15 Meaning that those automatic	15 low level of engagement when all of our training
16 fires went beyond a target of being aimed at,	16 was at the high-end, high-intensity combat.
17 whether it was a building or position and hit	17 Q. Is it fair to say that your opinion is
18 goats, sheep, camels, people, And it created	18 that automatic fire is most necessary in
19 animosity, likely so. That is why it would be	19 high-intensity combat?
20 better at that time not to use the U.S. military	20 A. Yes, sir. I think the 13-man patrol
21 that had been trained at high intensity and try to	21 moving across a rural area, urban street, and I
22 perform a police action.	22 receive fire from one individual. I can't see that
23 It was not our training program.	23 individual. He is hidden back into a room. I'm
24 We were being drug down this path of low intensity	24 not even sure which window or building he came
Page 67	Page 69
Page 67	Page 69
1 and behaving other than our training programs were,	1 from.
 and behaving other than our training programs were, and we should have just switched the force and sent 	 from. Our immediate response to that
 and behaving other than our training programs were, and we should have just switched the force and sent in LAPD and NYPD. 	 from. Our immediate response to that right then is all weapons go to full auto. And we
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1	Page 70 make decisions on what we do about it.	Page 72 1 we will see if it jumps in my mind, but to see
$\begin{vmatrix} 1\\2 \end{vmatrix}$	Q. Is it fair to say that use of full	2 I have read this over and over. I looked for
	automatic fire from an M4 or M16, the way in which	3 specifically, when preparing this, because in
	it is used is suppression in combat?	4 conversations with my peer group, we have often
	**	5 talked about the value of a rifle in combat and how
5	MR. BRADY: Objection. Incomplete	
L _	hypothetical. Vague. Calls for speculation.	6 high of a value was it. And we agreed that the
7	THE WITNESS: Yes, sir. I would say that.	7 rifleman has not been the cause of a win. It has
	And I will tell you, historically, and I wrote in	8 been a supporting factor in winning these heavy
	one of these reports, the rifle has created less	9 intensity fights. The cause of the win has been
	and less overall casualties over time.	10 air-delivered ammunition and artillery, the tanks.
11	For instance, in Civil War, 70	11 Q. And as I understand those figure
	percent of all casualties were produced by a	12 breakdowns, so you said 70 percent of casualties in
	rifleman. And then degraded over time, to the	13 the Civil War were caused by rifles, but now in the
	point where in World War II, 25 percent of all	14 Russia/Ukraine war, 99 percent of casualties are
	casualties were produced by a rifleman, and the	15 caused by something other than a rifle. Did I
	majority of the casualties were produced by	16 state that correctly?
	artillery.	17 A. You are correct. And I just read that
18	If you look at Ukraine and	18 recently in another document that came out. I
	Russia today, it is closer to 99 percent of all	19 believe it was a senator from Mississippi who wrote
	casualties are produced by artillery. High	20 it. It started from with a W. Whiten, perhaps?
	explosives delivered by air or artillery. Less and	21 He was quoting the forces that we may potentially
	less by the rifle. The rifle is used as a tool to	22 face. And in that, he is quoting the stalemate
	pin forces down while you bring other deadly forces	23 that is happening in Ukraine and Russia right now,
24	to bear. That is that orchestration of force that	24 where if you can be seen, you can be killed.
	Page 71	Page 73
	Colonel Tucker was so well at was use the	1 So now they have gone back into
	rifleman, not to inflict casualty, just to hold him	2 a quasi-trench warfare of stalemate because of the
	in place. Keep them from running away to fight	3 heavy sensors in the air, the thousands upon
5	another day, and then bring other forces to bear to	4 thousands of drones all keyed into artillery
1	destroy them.	
6	destroy them. Q. That 70 percent figure and that 99	 4 thousands of drones all keyed into artillery 5 systems ready to fire on a seconds, notice. 6 So that is why if you can be
	destroy them.	4 thousands of drones all keyed into artillery5 systems ready to fire on a seconds, notice.
7	destroy them. Q. That 70 percent figure and that 99 percent figure, what sources are you relying upon for that?	 4 thousands of drones all keyed into artillery 5 systems ready to fire on a seconds, notice. 6 So that is why if you can be 7 seen you can be killed. Artillery is winning this 8 fight in common-day war.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 destroy them. Q. That 70 percent figure and that 99 percent figure, what sources are you relying upon for that? A. I would not be able to answer that off the top of my head. And I quoted them in this document wherever they came from. That is the other nature is I don't have all these readily available to reference. Q. Why don't you have them available? A. I don't have any documents directly in front of me and you have control of the mouse. Q. I see. I see. I thought you were saying you didn't have access to them at all. But you believe 70 percent and 99 percent are quoted in your expert report? A. Yes, sir, they are. Or they were. They 	 4 thousands of drones all keyed into artillery 5 systems ready to fire on a seconds, notice. 6 So that is why if you can be 7 seen you can be killed. Artillery is winning this 8 fight in common-day war. 9 Q. How does the lethal capability of a 10 Civil War rifle compare to the lethality of an M4 11 like you carried in the Marine Corps? 12 MR. BRADY: Objection. Vague. 13 THE WITNESS: Probably better answered by a 14 ballistician. What the advantage of the 15 rifleman had there is they had this sense of honor 16 to face each other from 50 yards apart and take 17 turns firing. With a 50 caliber bullet that would 18 do massive tissue damage and very low competency on 19 medical availability. 20 So you have two factors, right? 21 Short range. Horrible medical treatment capability

Page 74	Page 76
1 called the "golden alley" where we will take a	1 The value of that square when
2 casualty. We will get you to treatment within one	2 presented by calvary and artillery and how you
3 hour.	3 would strengthen the square; and then Generation 2,
4 We will find a way and we work	4 where we are adding armor and aviation elements.
5 on it very diligently. Every casualty will get to	5 So you would have more than one
6 a shock trauma unit within one hour that can save	6 dimension of the fight. Instead of just ground,
7 their life.	7 you have ground air and ground, air, Navy, and then
8 In the Civil War, they would	8 you have ground an and ground, an, rvavy, and then 8 you have armored systems.
9 probably have died or had their leg cut off. Today	9 So this progressed over time to
10 we kept them alive. So you have a false	10 hybrid warfare that we are in today. Sometimes
11 measurement between the Civil War and today because	11 referred to as Generation 5.
12 of the medical factor.	12 A type of war meaning non-state
	13 actors can stand up against state militaries,
Q. So is it your testimony the Civil War14 rifleman is more effective in combat than the	14 equally. Non-state actors of whether it is squeaky
	15 rebels or the S-bullet who had his own aviation
15 American soldier carrying an M4 rifleman?	
16 MR. BRADY: Objection. Vague.17 THE WITNESS: I would not say it is more	16 elements, artillery elements, missile forces.17 These are non-state that was not typical before
18 effective. It is more lethal because we are	18 World War II, but now it is more typical.
	19 There may not be a state where
19 standing there facing each other. We can see each	20 you can have a reasonable conversation with. Does
20 other. They are 50 yards apart.	
21 Every single engagement for the	21 that answer your question?22 Q. It is helpful, yes.
22 Marine Corps, it is very rare to see who you are	
23 shooting at. They certainly aren't at 50 yards	23So can you tell me. You said24 you would prefer an M4 over a Civil War rifle. Why
24 waiting your turn to fire.	
Page 75	
1So no, I would not say the2rifleman was more effective. He had better	 would you prefer the M4 over a Civil War rifle? A. Civil War rifle is heavy, long,
3 opportunity against a stationary force which was	3 cumbersome, slow to reload, and very harsh recoil
4 following a Napoleonic formation facing each other,	-
5 taking turns to fire.	_
6 Q. I'm just asking about the weapon now.	5 Recoil management is critical to 6 follow on shots. So if I don't get kicked
7 So a Civil War rifle compared to an M4, which is	7 backwards by the recoil of that heavy musket where
8 more lethal?	8 my muzzle rises up to the air, and there is a time
9 MR. BRADY: Objection. Vague.	9 loss of getting that muzzle back down to the
10 THE WITNESS: I'm going to have to speculate.	
11 I would take today's weapon over Civil War any day	-
12 of the week, but the method to fighting then led to	12 adjustment from that shot, because I have to reload
13 more individual casualties by rifle.	13 and reacquire the target.
14 BY MR. WELLS:	14 The AR platform has a buffer
15 Q. Are you a military historian?	15 system in it. Has an adjustable stop to fit my
16 A. No, sir.	16 body stature and whatever clothing that I'm
17 Q. Are you a firearms historian?	17 wearing.
18 A. I'm not.	18 Has a shorter barrel to bring
19 Q. What training do you did you receive	19 the weight closer to me. Has a free-floated
20 any training from the military on historical	20 forehand so I don't deviate the barrel. And it has
21 tactics as they relate to Civil War battles?	21 a lethal enough projectile to hit the target more
22 A. Yes, sir, I did. We call them	22 accurately than at further distances.
23 generations of warfare. Generation 1 was	23 The AR platform is portable,
24 Napoleonic tactics; square against square.	24 lightweight, maneuverable, to allow me to get into
unit and a second and a second	

20 (Pages 74 - 77)

	Page 78		Page 80
1	and out of different positions of protection. The	1	civilian market?
	musket does none of those.	2	A. Yes, sir, it is.
3	Q. When you say that the AR cartridge is	3	Q. And is that M855 round, as you
-	lethal enough, what do you mean?	-	understand, one that folks who own AR-15 rifles
5	A. I just want to make him stop shooting.		frequently used?
-	I don't need to blow his arm off or his head. I	6	MR. BRADY: Objection. Vague. Calls for
	just put a hole in him to make him react. That is	7	speculation.
	our entire premise of combat is present a	8	THE WITNESS: I would say no, sir, it is not.
1	life-threatening challenge to opponent to make him	9	We really do not like that round. It is a full
	stop firing or stay hidden.		metal jacket with an armor penetrator. It doesn't
11	Riflemen, more often than not,		expand well. It will seriously just poke a hole in
	just keep him hidden. And while he is hidden and		most targets without expansion.
1	unable to shoot at us, we bring other forces to	13	So as a civilian, I would want
1	destroy him.		something that would create a larger wound cavity,
15	Q. When you said that "that AR cartridge		that did not over penetrate, that stayed inside the
	was lethal enough," what AR cartridge were you		body as much as possible.
	referring to?	17	So the last bullet I would
18	A. Mentally. I was thinking of the M855		choose would be the M855 bullet.
19		19	Q. But the M855 is available in the
	bullet we used. We had plenty of other options.		civilian market for folks to purchase and civilian
1	They weren't always readily available.		semi-automatic MA-15. Is that correct?
22	We had to plan ahead to get	22	A. Yes, sir, it is.
	them. Tracer bullets they made, 56 was available.	23	Q. You mentioned that you wouldn't want a
	Today they've replaced the M55 with enhanced	24	bullet that did not overpenetrate. Does the M855
	Page 79		Page 81
1	performance called M855-A1.	1	round pose a risk in a home setting?
2	Predominantly all my engagements	2	MR. BRADY: Objection. Incomplete
3	around my career were with the MA-55 and MA56, the	3	hypothetical. Calls for speculation.
4	green tip bullet and a tracer compatible to that	4	THE WITNESS: Yes, sir. It has a penetrator
5	green tip bullet.	5	••••••••••••
6	There were occasions where I had	5	in it that could get through barriers easier.
	There were occasions where I had	6	There are some negatives to it
	frangible bullets when I was on an anti-terrorist	6	
7		6 7	There are some negatives to it
7 8	frangible bullets when I was on an anti-terrorist	6 7	There are some negatives to it under 27 meters I don't know why that number
7 8 9	frangible bullets when I was on an anti-terrorist unit we used frangible bullets when doing shipboard	6 7 8 9	There are some negatives to it under 27 meters I don't know why that number came up. It was converted to yards.
7 8 9 10	frangible bullets when I was on an anti-terrorist unit we used frangible bullets when doing shipboard takedowns so we wouldn't poke a hole in a nuclear	6 7 8 9 10	There are some negatives to it under 27 meters I don't know why that number came up. It was converted to yards. It is under such high stress
7 8 9 10 11	frangible bullets when I was on an anti-terrorist unit we used frangible bullets when doing shipboard takedowns so we wouldn't poke a hole in a nuclear reactor or ricochet around and hit ourselves.	6 7 8 9 10 11	There are some negatives to it under 27 meters I don't know why that number came up. It was converted to yards. It is under such high stress that if it hits a barrier, a door frame or a
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	frangible bullets when I was on an anti-terrorist unit we used frangible bullets when doing shipboard takedowns so we wouldn't poke a hole in a nuclear reactor or ricochet around and hit ourselves. Those bullets disintegrated on impact. And then we used them in Fallujah to kill the cats and dogs dragging the bodies around so we could collect up those bodies before disease was rampant. Q. When you were talking about the virtues of AR-15 rifle and you mentioned the lethal enough round, you were specifically referring to or you had your M855 round that you used in the military; is that right? MR. BRADY: Objection. Misstates testimony. BY MR. WELLS:	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	There are some negatives to it under 27 meters I don't know why that number came up. It was converted to yards. It is under such high stress that if it hits a barrier, a door frame or a doorknob, it can disintegrate itself. So there are limitations to it. It is also velocity dependent. It needs to have 2500 feet per second or more to enter the body, rotate and break apart. Under that 2500 feet per second it doesn't break apart. It just flips over and exits. So you have basically a ice pick hole that doesn't have that decompression of blood loss, loss of a limb, major muscle damage. And, again, for self-defense, it is a horrible bullet design. Q. You mentioned flipping over and exiting.

	Page 82	Page 84
1	dependent." It has to be off axis. On axis would	1 your question without picking a bullet, starting a
	be a zero of liquidity of entry. Off axis would be	2 bullet, which I don't do. I never get to pick my
3		3 bullets. I get to shoot what I was issued.
4	If it has yaw any bullet	4 BY MR. WELLS:
1	entry, and still has 2500 feet per second, as it	5 Q. So you do make a recommendation about
	rotates, it will break apart at the cannelure,	6 use of AR platform rifle for self-defense in this
	which is a little crimp where you see at the top of	7 case. Is that right?
	the brass casing right where it meets the	8 A. Yes, sir.
	projectile. It will break apart at that point and	9 Q. And what bullet would you recommend to
	give multiple trauma wounds with the goal of	10 use in that rifle in a home defense setting?
11		11 A. I would search a line of a small
12	On the M4-A1, and M4 and A1,	12 deer-type of bullet. 55 to 62 grains or as a
	that bullet reaches speeds under 2500 meters at 75	13 matter of fact, when I shoot deer right now, I use
	material species under 2500 meters at 75 meters victorious.	14 a Federal 77 grained Open Tip Match bullet, which
15	The M16A4 with a 20-inch barrel,	15 would be a very good bullet for humans.
-	that distance happens at 175 meters. That makes it	16 Q. Why is it a good bullet for humans?
17		17 A. Because it expands into the target and
	shoot it in a short range, because it is under such	18 it breaks. It comes apart into multiple track
	high stress. It hasn't stabilized and it is	19 wounds. So there is a chunk of it that will
	difficult to shoot at the further ranges because it	20 mushroom out and give me a larger hole diameter to
1	loses velocity and no longer brakes apart and gives	21 give me more blood loss. A lot of casualties stop
1	multiple target points.	22 fighting due to decompression. They just lose
$\begin{vmatrix} 22\\ 23 \end{vmatrix}$	Q. So in the civilian market, are there	23 blood. But that can last two minutes before that
	other types of ammunition available for an AR-15	24 individual stops shooting at me.
-		- · · · · · · · · · · · · · · · · · · ·
		Daga 95
1	Page 83 platform rifle to correct for those concerns you	Page 85
	platform rifle to correct for those concerns you	1 So we tend to put more bullets
2	platform rifle to correct for those concerns you just identified?	1 So we tend to put more bullets 2 in, try to get more trauma wounds until that
2 3	platform rifle to correct for those concerns you just identified?A. Yes, sir. There is plenty. There is	1 So we tend to put more bullets 2 in, try to get more trauma wounds until that 3 aggressor stops.
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	Page 86		Page 8
1	say?		aware of what it is for final approval. They have
2	A. Yes, sir. That is fair to say.		a doctrine command. I doubt it is at the 3-star
3	Q. I just want to show you that other		level. The subordinates, they offered the
4	document and make sure we are talking about the	4	opportunity to approve these. I wrote doctrine for
5	same one.	5	awhile for the Marine Corps. And our methods are
6	Okay. Mr. Eby, do you see a	6	completely different than the Army. So I can't
7	document labeled "Rifle Marksmanship, M16-M4 Series	7	even speculate on what their approval process is.
8	Weapons"?	8	BY MR. WELLS:
9	A. Yes, sir.	9	Q. Do you know whether this document would
10	Q. And it has an FM3-22-9?	10	have been authored by a single person?
11	A. Yes, sir.	11	A. Army is probably a 20-man crew with an
12	Q. Have you seen this document before?	12	individual per chapter.
13	A. Briefly. I have not read it totally. I	13	Marine Corps would be at a
14	just went to a reference.	14	single person on the entire bulletin.
15	Q. And what is the date on this document?	15	Q. And do you have any sense at what level
16	A. August 2008.	16	in the chain of command this document would have
17	Q. So flip to Page 7.89 in this document,		receive final approval before it could be used to
	which for the record, I think I'd like to mark as		train soldiers?
	Deposition Exhibit 3.	19	A. Yes, sir. Probably a colonel level, an
20	(Deposition Exhibit 3 was marked	-	06 after approval from editors and grammar
20	for identification.)		specialists.
	BY MR. WELLS:	$ ^{21}_{22}$	Q. And in your experience in the military
			where a colonel signing off on a document like
23	Q. And directing your attention to the		
24	bottom of the page Bates-labeled 0AG3359, do you	24	this, would they know what is in it?
	Page 87		Page 8
	see that statement that says "rapid semi-automatic	1	MR. BRADY: Objection. Calls for speculation
2	fire"?		incomplete hypothetical. Vague.
3	A. Yes, sir. I see that.	3	THE WITNESS: I would say no. The colonel
4	Q. And do you see that it states the most		would take advice of the people who wrote it, the
5	important firing techniques during fast-moving	5	grammar specialist who edited it and then the
6	modern combat is rapid semi-automatic fire?		photographers or graphic artists. He would more
7	Did I read that correctly?	7	than likely just take those advisors input and then
8	A. You did read that correctly.	8	sign it once they told him it was ready.
9	Q. And is that the statement that you were	9	BY MR. WELLS:
10	describing earlier that you disagreed with?	10	Q. And this document was in effect, when
11	A. Yes, sir, that is.	11	you were serving alongside U.S. Army soldiers in
12	Q. And I believe you stated in your		the military, correct?
13	rebuttal report that this was just the author of	13	A. Yes, sir.
	this document's opinion. Is that fair to say?	14	Q. And those soldiers would have been
15	A. It is. There is no reference alluded	15	governed by this document. Is that fair to say?
	to. As a matter of fact, every report I've ever	16	MR. BRADY: Objection. Vague, calls for
	read says the exact opposite of that.		speculation.
	Q. And this type of document, how what		BY MR. WELLS:
18	level of approval would be required for this	19	Q. You can answer.
		20	
19	document to be used in the Army tor training?	20	
19 20	document to be used in the Army for training?	21	() And mot terme to medan-to describe the
19 20 21	MR. BRADY: Objection. Calls for speculation.	21	Q. And just trying to understand what the
20 21 22	MR. BRADY: Objection. Calls for speculation. Vague.	22	author was communicating here. What is your
19 20 21 22 23	MR. BRADY: Objection. Calls for speculation.	22 23	

23 (Pages 86 - 89)

Page 90	Page 92
1 MR. BRADY: Objection. Vague. Calls for	1 Q. So when you say "every three years," is
2 speculation.	2 it fair to say that this January 2024 date
3 THE WITNESS: I would speculate that with 70	3 indicates to you that this is the most recent
4 years of fighting low-intensity conflict or police	4 iteration of this document?
5 actions from Vietnam, Afghanistan to Iraq, the	5 A. Yes. Now, I can see it was an
6 experiences perceived by the authors, the actions	6 eight-year delay from the previous one.
7 in contact with enemies, led him to believe that	7 It supersedes the April 2016
8 only semi-automatic fire was necessary.	8 document of the same number.
9 At no time since World War II	9 Q. And you're basing that on the text that
10 or maybe Korea have we fought somebody equal to us	s 10 says, "Distribution restriction approved for public
11 in strength training and capabilities to counter	11 release. Distribution is unlimited. This
12 that statement. And my concern was they are	12 publication supersedes ATP321.8 dated 12 April
13 learning the wrong lessons from the wrong fights.	13 2016." Is that right?
14 By setting the force up to	14 A. Yes, sir. Whenever we need to pull the
15 continually fight in a third-world country, we fail	15 date and search for a super session to see if it
16 to prepare the force for a first-world peer threat.	16 has been replaced.
17 Q. So your read of this document in this	17 Mostly we wouldn't do that. We
18 particular statement is that the statement about	18 will take the document we had originally and just
19 the most important firing technique during	19 work with it.
20 fast-moving modern combat being rapid	20 Q. And do you see at the bottom there, this
21 semi-automatic fire is the product of the nature of	21 has been labeled OAG 006571? Do you see that pag
22 the wars that the United States has fought during	22 number?
23 the last 60 years being low intensity. Is that	23 A. I do.
24 right?	24 Q. All right. And do you see that it is
Page 91	Page 93
1 A. Yes, sir	1 596-page PDF that I'm not going to make you read
2 MR. BRADY: Objection. Misstates the	2 all of it, but I will scroll to the end here and
3 testimony.	3 just show you final page numbers, OAG 007166. Do
4 BY MR. WELLS:	4 you see that?
5 Q. Is that a "yes"?	5 A. I do.
6 A. Yes, sir.	6 Q. And is that consistent with the
7 Q. Let me show you one more document, and	7 understanding of this publication, that it is close
8 then we will take a break since we've been going	8 to a 600-page manual?
9 here for awhile.	9 A. Correct.
10 Okay. Mr. Eby, I've put up on	10 Q. And what is the function of this
11 the screen a document labeled "ATM321.8 Infantry	11 document in the military?
12 Rifle Platoon Squad," dated January 2024.	12 MR. BRADY: Objection. Vague.
13 Have you seen this document?	13 THE WITNESS: These documents are designed to
14 A. No, but I've seen previous versions of	14 give a squad leader, commander a best practice
15 this.	15 overview of how to think about using their force.
16 Q. When you say "previous versions," what	16 Using their weapon systems.
17 do you mean?	17 So when I say "best practice,"
17 do you mean? 18 A. These documents are regularly updated on	18 it means a generalization of any engagement you may
19 a time span. When they can afford to do so and	
	19 or may not get into with an unknown enemy force.
20 have the time to get to them.	20 We call this a "baseline." Give me a start point
21 Some are called for review every 22 three years, and that review may decide no changes	21 to make my considerations on when forming my plan.
LZZ THEE VEALS, AND THAT LEVIEW THAN DECIDE NO CHANGES	22 At least I have I don't know
22 three years, and that for two may decide no changes23 recommended, or it may go back into a full edit and24 restructure.	23 if you've ever heard phrases such as "get out of24 the box." You have to mentally get out of the box.

	D 04	P
1	Page 94 Well, this is the box. This is our start point on	Page 96 1 THE WITNESS: We have different behaviors in
	what should I be considering on manning, training	2 an organization. We use different weapon systems
	and equipment before I adjust that plan based on	3 when we go into the offense than we do when we go
	enemy situations. Troops and fire support who are	4 into the defense.
1	available, weather, and then my own available	5 We have different expectations
1	personnel, and my own available personnel, and then	6 of behavior, different tools that we will need.
1	enemy situation.	7 These give me that start point of the conversation
8	So these are not cookie-cutter	8 and understanding what an average might be that I
9		9 can deviate from building my plan.
10		10 The more of these you read, the
11	Q. That is helpful. And is it how does	11 faster you develop your plan.
	the function of this document differ from the one	12 Q. And when you were in the military would
	that we've previously looked at, TC322.9 Rifle and	13 you have been the one developing the plan or would
1	Carbine?	14 you have been a commanding officer?
15	A. Without reading this document, the rifle	15 A. The commanding officer would have been
-	and carbine would be individual skills. This would	16 developing the plan. I would have been the advisor
	be more collective. This would probably take you	17 on whether we were offense or defense or in between
	to the tactical operations of the squad and the	18 the two. We may have just been patrolling a prior
1	platoon with various weapons. The grenade	19 developing situation and we need to go into
	launchers, the rifles, the automatic rifles. The	20 defense, depending on enemy size, capabilities.
	Army still uses the light machine gun within their	21 Q. And what is the nature of the advising
	squads.	22 that you would provide in that relationship?
23	They could have assets and	MR. BRADY: Objection. Incomplete
-	support, such as mortars and machine guns, and	24 hypothetical. Vague. Go ahead.
1	Page 95 aerial support, gun fire support. Drones for	Page 97 1 THE WITNESS: The majority of the time, I
	sensors.	2 would be asked a specific question, "which of our
3	This is a collective effort to	3 elements is the best applied in this situation."
-	try to bring it all together.	4 Will the weapons that we had available benefit or
5	Q. Okay. I'm scrolling to Page 3 of the	5 hinder in whatever hypothetical situation?
	PDF, which has Bates Label OAG 006573 to show you	6 In the defense, are we organized
	the table of contents.	7 properly? Are there some best practices we have
8	Do you see that?	8 forgotten? I usually would get tasked. Go down to
9	A. I do see that.	9 the companies. Overview their defensive parimeters
10	Q. Okay. And just to give you a second to	10 and behaviors and identify any friction points that
	look at the table of contents, with small Roman	11 needed resolving.
	numeral one, OAG6573, and you move to the second	12 Q. And how is an offensive operation at a
	page.	13 higher level different than a defensive operation?
14	And do you see on the second	14 A. We task organize for the mission. For
		15 instance, in the offense we have standard
	is labeled "Offense," and Chapter 5 is labeled	16 administrative organizations. A rifle squad. A
	"Defense."	17 rifle platoon. A rifle company. They have
18	Do you see that?	18 adjustable war organization and adjustable
19	A. I do.	19 equipment. Those are administrative in nature
20	Q. And based on this table of contents and	20 only.
21	your understanding of what this document is, what	21 We only use them to manage the
	is why would Chapter 4 be labeled "Offense"?	22 force in the peacetime we call it "Garrison,"
	What is that about?	23 but it is the area around the barracks that we stay
24	MR. BRADY: Objection. Calls for speculation.	24 in the majority of the time.
1	- *	~ ~

	Page 98	Page 100
1	Once we go into combat, we task	1 basic response training, it will create the
2	organize for the mission. So depending on the	2 hypothetical scenario that forces decisions on task
	mission, what is the enemy situation? What are	3 organization and equipment to go over, and that may
	troops? Is fire support available? What does the	4 change in the very next class. They will refine it
	terrain look like? What is the weather? We will	5 because they didn't like the outcome of an event.
	task organize completely away from a standard	6 So, those are I call them "live." Those are
7		7 living documents that are worked on each and every
8	We will break down to assault	8 occasion of use. But it starts with something like
9	support, security and headquarter elements. We	9 this. It is grounded in some kind of best practice
	will identify the needed external assets; tanks,	10 recommendation of behavior that you can consider.
11		11 You are not bound by it. Nobody is going to grade
12	gunfire, and we will add that altogether.	12 you and hold you to it.
13	Q. I think that is helpful.	13 So this is a good start point to
14	Let me just ask to try to	14 read through to formulate in a young officer's
	situate this publication and how it is used. In	15 or young officer's mind, the right words, the right
	your rebuttal report on Page 5, you said "The	16 organizations, the right expected behaviors
	military does not teach automatic fire skills in	17 depending on the mission and enemy. It is a good
	marksmanship facilities. Automatic or burst firing	18 baseline and very good documents for that, but we
	skills are taught during tactical scenarios and	19 don't run around with them with this checklist to
	field training environments using different	20 make sure that is how we are behaving, because it
	publications than the marksmanship ones to guide	21 depends upon the hypothetical situation that you
	these best practices."	22 are faced with to execute.
23	Is this publication we are	23 MR. WELLS: Okay. Mr. Eby, we've been going
24	looking at right now, the infantry squad, ATP3	24 about two hours. Why don't we take a break. It is
	Page 99	Page 101
1	21.8? Is this one of the publications that would	1 11:O2. Why don't we reconvene on 11:15. And
2	be used to train riflemen on tactical scenarios?	2 you're on central time, right?
3	A. Potentially, yes. It is a start point,	3 THE WITNESS: Yes, sir.
4	but it is also modified by student handouts and	4 MR. WELLS: Let's reconvene at 11:15.
5	instruction classes from the basic school, the	5 (Recess.)
6	infantry squad leader school and the infantry	6 BY MR. WELLS:
7	platoon training course. And those areas will use	7 Q. Let's go back on the record. It is
8	training handouts to help refine this start point.	8 11:16 AM. Did you speak to anyone during
9	So in conjunction with several	9 A. I spoke to my counsel.
	documents, we start building behaviors and	10 Q. Let's jump in here to a document that
11	practicing those.	11 was previously marked as an Exhibit, ATP321.8.
12	Q. So just kind of using a school analogy,	12 We are specifically looking at
	is it fair to say this document we are looking at	13 OAG 65943. I'm directing your attention, Mr. Eby,
	right now. This ATP328.1 is sort of like a	14 to paragraph marked 111. Do you see that?
	coursebook, and then in training, the instructor	15 A. Sir, I have a screen in front of the
	will add on and build from that course book. Is	16 screen.
	that a fair analogy?	17 I don't know if that is mine or
18	MR. BRADY: Objection. Vague.	18 yours. Oh, I got it.
19	THE WITNESS: Yes, sir. In that training	19 Q. Okay. Can you see it now?
	outline they have to paint a picture of a scenario.	20 A. I do. Yes, sir.
	This manual probably won't do that well. It will	21 Q. Do you see where it says "111. Fire
	probably be a World War II scenario with some	22 teams are designed as self-contained team?" Do you
	historical action. In that actual classroom where we break it down into the squad leader training or	23 see that?24 A. Yes, sir.
101		

	Page 102	Page 104
1	Q. And it goes on to say, "The automatic	1 of whether you agree or disagree with the term, how
2	rifleman provides an internal base of fire with the	2 is that different from the term "point target"?
3		3 A. Area target is controlled by techniques
4		4 of employment. Searching is an elevation change.
5		5 I aim higher. I aim lower. Traversing. I aim
		6 further left. I aim further right.
6	5	_
7	A. I do.	7 On the machine guns the heavy
8	Q. Do you agree with those statements?	8 machine guns and medium machine guns, they have
9		9 tripod where they traverse an elevation mechanism
	skills, yes.	10 that controls the size per the impact of an area.
11	Q. What is a fire team?	11 So a squad leader can give a
12	A. An administrative organization designed	12 command. They fire on a 10-foot wide area of that
13	to train and develop skills in a peacetime area.	13 bunker on Gun 1, and then overlay that with a fire
14	We don't fight like that. We fight in	14 command to Gun 2 to ensure that this entire width
15	task-organized elements, assault support security	15 and height can be impacted with machine gunfire.
16	and headquarters. We can use these in defensive	16 We can do the same thing with
17		17 mortars. We can do the same thing with artillery.
18		18 It doesn't apply to the rifle because, A, we can't
19		19 control the overall aim, and they are not designed
20		20 to shoot area targets without a tripod.
21	Q. When it says here, "The rifleman	21 Q. When you say "A rifle is not designed to
	provides accurate lethal direct fire for point	22 shoot area targets without tripod," what rifle are
	• •	
	targets." What are "point targets"?	23 you referring to?
24	A. It is a misnomer. Point target is	A. Any handheld rifle should not be
	Page 103	Page 105
	designed for machine guns where a full burst of	1 receiving these artillery point targets. But they
	fire can hit that same cone of fire where all	2 got imbedded so early and have been stuck in our
3	bullets impact.	3 doctrinal publications for 60, 70 years as a
4	Point and area targets should	4 matter of fact, I received meritorious promotions
5	never have been incorporated into a rifle because a	5 that I now know to be incorrectly applied.
6	rifle is an uncontrolled aim. It doesn't have a	6 Q. Are you including machine guns within
7	tripod. I can't control the direction of fire.	7 your usage of the term "rifle"?
8	And the point would be the size of a bullet being	8 A. No, sir. Machine guns point and area
	fired. So that point would be a .223 caliber from	9 applies. They have control features where I can
	a rifle or .308 from a larger rifle to this was	10 control the beaten zone. The beaten zone is that
	a mistake in publication that derive from 1960s	11 area where all bullets impact.
		12 That same area is called "cone
	and should he for be incorporated. We just call t	
12	get rid of it	13 of fire" when the bullets are in the air So a
12 13	get rid of it.	13 of fire" when the bullets are in the air. So a
12 13 14	It is one of these things that	14 machine gun shoots 5 to 8 rounds of burst. As
12 13 14 15	It is one of these things that stuck there, but it would be a single point, single	14 machine gun shoots 5 to 8 rounds of burst. As15 those bullets go up in the air, they are forming
12 13 14 15 16	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would	14 machine gun shoots 5 to 8 rounds of burst. As15 those bullets go up in the air, they are forming16 this cone of fire. So as bullets lay onto the
12 13 14 15 16 17	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement.	14 machine gun shoots 5 to 8 rounds of burst. As15 those bullets go up in the air, they are forming16 this cone of fire. So as bullets lay onto the17 ground, that terms changes to "beaten zone" where
12 13 14 15 16 17 18	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target,	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact.
12 13 14 15 16 17 18 19	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target, when it is used, regardless of whether you agree	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact. 19 So because they have a search
12 13 14 15 16 17 18 19	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target,	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact.
12 13 14 15 16 17 18 19 20	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target, when it is used, regardless of whether you agree	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact. 19 So because they have a search
12 13 14 15 16 17 18 19 20	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target, when it is used, regardless of whether you agree with its usage or not, refers to shooting and hitting one spot? Is that right?	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact. 19 So because they have a search 20 and traverse mechanism, we can control the size of
12 13 14 15 16 17 18 19 20 21 22	It is one of these things that stuck there, but it would be a single point, single aim, point and shoot, and hit that one spot would be the intent to this statement. Q. So is it fair to say that point target, when it is used, regardless of whether you agree with its usage or not, refers to shooting and hitting one spot? Is that right?	 14 machine gun shoots 5 to 8 rounds of burst. As 15 those bullets go up in the air, they are forming 16 this cone of fire. So as bullets lay onto the 17 ground, that terms changes to "beaten zone" where 18 the bullets made impact. 19 So because they have a search 20 and traverse mechanism, we can control the size of 21 that location of the beaten zone. It can be a

27 (Pages 102 - 105)

Page 106	Page 108
1 targets for medium and heavy machine guns, light	1 not the guy shooting it.
2 and heavy mortars. We mistakenly use it often in	2 And every shooter is different.
3 rifles, where a logic flow would take it out of the	3 So it is not repeatable the way it is with a
4 conversation.	4 machine gun.
5 Q. Just explain to me one more time I	5 Q. So is it fair to say, then, that some
6 may have missed this why it shouldn't be applied	6 infantrymen may be able to effectively use fully
7 to a rifle. Because I think you said something	7 automatic fire and stay on target, but others may
8 like a rifle can't be controlled in the same way.	8 not be able to be stay on target?
9 Why can't these terms be applied to a rifle?	9 MR. BRADY: Objection. Incomplete
10 A. Even when I'm rifle shooting fully	10 hypothetical. Calls for speculation. Vague.
11 automatic and it is out on my tripod, he is	11 THE WITNESS: Yes. Fair statement.
12 subjected to the recoil of the weapon. And then he	12 Without the proper training,
13 is subjected to his own training capability to	13 repetition, there is no two shooters that will
14 manage that recoil to keep the whatever burst of	14 perform the same way.
15 rounds into a certain area. We can't do that	15 BY MR. WELLS:
16 deliberately. We don't control the recoil between	16 Q. Okay. Just looking back at the screen
17 rifle systems, between shooters.	17 here, this Section 1.11 that we previously
18 There are too many variables.	18 mentioned is on OAG-006594, the statement the
19 We can control the area of the impact with medium	19 second sentence in 111, "The automatic rifleman
20 and heavy machine guns with mortars because those	20 provides an internal base of fire with the ability
21 are all controlled with traversing elevation	21 to deliver sustained suppressive small arms fire on
22 mechanisms.	22 the area of targets."
23 So that is how I define this	23 What weapon does an automatic
24 is because the rifle is too subjected to the recoil	24 rifleman carry?
-	· ·
Page 107	Page 109 1 A. The Army uses an M249 light machine gun
 management of the shooter, too subjected to the different position. I don't know if they can 	2 The U.S. Marine Corps uses an M27 select fire
3 manage that recoil in an area to guarantee point	3 rifle.
4 an area of coverage. Therefore, it doesn't apply.	4 At the end of the day, that is a
5 Q. I see. So your description of an	5 role to play that is less dependent upon the weapon
6 infantryman with an M4/M16 rifle, there is too much	6 system, and about the duty assigned by the
7 variation across an individual infantryman's	7 commander the fire team, the squad, whatever the
8 ability to stay in a particular area when using	8 element leader is.
9 automatic fire to apply the point target and the	9 If my automatic rifleman that
10 area target. Is that fair to say?	10 had the designated automatic rifle gets shot, the
11 MR. BRADY: Objection. Misstates testimony.	11 guy with the rifle gets told, "You are now the
12 Vague.	12 automatic rifleman. You will perform the duties to
13 BY MR. WELLS:	12 automatic inferiant. Fou will perform the duties to 13 suppress at a high volume against this location for
	13 suppress at a high volume against this location for 14 this duration."
15 A. Yes, sir.	15 So it is an assigned role.
 A. Yes, sir. Q. And when you say M4/M16 rifle is too 	15So it is an assigned role.16Weapon the Army uses it differently than the
15 A. Yes, sir.16 Q. And when you say M4/M16 rifle is too17 subjective to recoil, what do you mean?	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun.
 A. Yes, sir. Q. And when you say M4/M16 rifle is too subjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not.
 A. Yes, sir. Q. And when you say M4/M16 rifle is too subjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent upon the shooter's ability to manage it. 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not. 19 Q. What is "sustained suppressive small
 A. Yes, sir. Q. And when you say M4/M16 rifle is too rsubjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent upon the shooter's ability to manage it. And I don't know the individual 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not. 19 Q. What is "sustained suppressive small 20 arms fire"?
 A. Yes, sir. Q. And when you say M4/M16 rifle is too rsubjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent upon the shooter's ability to manage it. And I don't know the individual shooter. I can put him through training programs 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not. 19 Q. What is "sustained suppressive small 20 arms fire"? 21 A. Dependent upon the timing of the enemy
 A. Yes, sir. Q. And when you say M4/M16 rifle is too rubjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent upon the shooter's ability to manage it. And I don't know the individual shooter. I can put him through training programs to help get the body mass behind the weapon. I can 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not. 19 Q. What is "sustained suppressive small 20 arms fire"? 21 A. Dependent upon the timing of the enemy 22 that comes up, the element leader will tell you at
 A. Yes, sir. Q. And when you say M4/M16 rifle is too rsubjective to recoil, what do you mean? A. I mean that the muzzle rises, dependent upon the shooter's ability to manage it. And I don't know the individual shooter. I can put him through training programs 	 15 So it is an assigned role. 16 Weapon the Army uses it differently than the 17 Marine Corps because they use a light machine gun. 18 We do not. 19 Q. What is "sustained suppressive small 20 arms fire"? 21 A. Dependent upon the timing of the enemy

	Page 110		Page 112
1	He may tell you to empty a	1	Q. But just walk me through this go
2	magazine in 10 second. He gets to choose because	2	ahead.
	the enemy has a vote. Whatever the volume of the	3	A. So in a hypothetical. If I am evenly
4	enemy, the behavior of the enemy, that behavior	4	matched, I won't give a round count. I would just
	determines our response.		suppress until we get into cover. That would be a
6	Q. Have you ever seen a commander give an		full automatic suppression until we get into cover.
7	instruction to empty a magazine in 10 seconds?		This is the most dangerous time for me. The enemy
8	A. Not in that nature. I've heard an		picked the location of this fight. I'm standing
9	instruction to suppress well, it is a response		and moving wide open to their gun fire, and I can't
10	behavior.	10	figure out where they are at.
11	We have to have an immediate	11	I don't see them. They are
12	response action. And we rehearse these before we	12	shooting, trying to make as many casualties out of
13	go out. So in that time frame I will give you		us as possible before we get undercover. It is our
14	an example.		high volume of fires that become our protection for
15	If we are on movement to	15	the next twenty seconds, trying to get undercover.
16	contact, and we take chance contact, the immediate	16	
17	action drill is empty your magazine as fast as	17	which you would expect automatic suppression fire
18	possible in auto fire while moving to cover.	18	to take place, twenty seconds?
19	Once in cover, slow down, shoot	19	MR. BRADY: Objection. Vague. Misstates
20	sustainably as we assess the situation. So we run	20	testimony. Incomplete hypothetical.
21	these prior to I know where I'm going to go. I	21	THE WITNESS: Unfortunately, you would have to
22	get a mission. I'm getting ready to execute it. I	22	set the scenario of how far is it for me to get
23	have a full laundry list of how do I react to	23	into cover? How many of my people are there? How
24	incoming air? How do I react to naval gunfire.	24	many of them are there? What weapons do they have?
	Page 111		Page 113
1	Page 111 How do I react to artillery? What do I do with an	1	You would have to paint a really
	-	2	You would have to paint a really deep picture to get a single answer, and it would
2	How do I react to artillery? What do I do with an	2 3	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted.
2 3 4	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled	2 3	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS:
2 3 4 5	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and	2 3 4 5	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving
2 3 4 5	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area.	2 3 4 5 6	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner,
2 3 4 5 6 7	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area. Then you receive different	2 3 4 5 6 7	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner, would you be giving commands, or would another
2 3 4 5 6 7 8	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area. Then you receive different commands. Does that make sense?	2 3 4 5 6 7 8	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner, would you be giving commands, or would another officer give commands in those types of scenarios?
2 3 4 5 6 7 8 9	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area. Then you receive different commands. Does that make sense? Q. It does. And you mentioned earlier that	2 3 4 5 6 7 8 9	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner, would you be giving commands, or would another officer give commands in those types of scenarios? MR. BRADY: Objection. Vague.
2 3 4 5 6 7 8 9 10	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area. Then you receive different commands. Does that make sense? Q. It does. And you mentioned earlier that a team leader or a commander may give an	2 3 4 5 6 7 8 9 10	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner, would you be giving commands, or would another officer give commands in those types of scenarios? MR. BRADY: Objection. Vague. THE WITNESS: It would not be me. It would be
2 3 4 5 6 7 8 9 10 11	How do I react to artillery? What do I do with an IED? So every potential scenario is rehearsed with an immediate action drill so that no commands be given. You have an expected drilled response to perform until you get into cover and out of that immediate danger area. Then you receive different commands. Does that make sense? Q. It does. And you mentioned earlier that a team leader or a commander may give an instruction of a rate of fire, 10 rounds a minute,	2 3 4 5 6 7 8 9 10 11	You would have to paint a really deep picture to get a single answer, and it would only apply to that one scenario that you painted. BY MR. WELLS: Q. And when you are talking about giving commands in that circumstance as Marine gunner, would you be giving commands, or would another officer give commands in those types of scenarios? MR. BRADY: Objection. Vague. THE WITNESS: It would not be me. It would be whoever the element leader was at the point of
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1	call it ADDRAC. "Alert, direct, description,	1	response involves both firing and moving to cover.
	range, assignment and control." Who is going to		Is that right?
1	shoot. And then the control piece of it you are	3	A. Yes, sir.
1	going to get ready to fire.	4	Q. And then once that initial round of fire
5			and moving to cover has been accomplished, then the
-	order to the force is not the first thing that		commander will set a rate of fire; is that right?
1	happens. The first thing that happens is survival.	7	A. In part. At the time he gets
	Get out of this what we call a "kill zone" of		undercover, he has to make an assessment am I
	the enemy's choice.		strong enough to overwhelm this enemy? If I'm not,
10	-		can I get more assets to do so.
	delivered, and once you get in to wherever the	11	If I can get more assets to do
	cover is now, unfortunately we don't get to		so, how am I going to do it? If I can't get more
1	patrol only where there is nearby safety areas.		assets to do so, I can't overwhelm that enemy, I
	You could be standing in the middle of an empty		need to disengage. So he has to assess all this
1	parking lot that doesn't happen immediately.		action and situation and make a decision in issuing
	Nobody can hear. The gun fire is too loud.		an order.
17		17	In that issuing an order when he
18	moving undercover.	18	finally gets around to it, he might give a rate of
19	-		fire command if it's necessary, and he may just
20	as a movement to contact?		say, "Look around the area, and let's leave."
21	MR. BRADY: Objection. Vague.	21	So it is not a fixed answer
22	THE WITNESS: No. It is any time I'm moving.	22	without a scenario.
23	I could have an immediate action while I'm in the	23	Q. Understood. And I'm just trying to
24	stationery defense of a building. Artillery is	24	understand so your testimony that it is in that
	Page 115		Page 117
1	coming in, and I have a planned behavior to	1	initial time period between the contact and
2	execute. Run down in the basement and get	2	obtaining cover, that in your view, full-on
3	undercover.	3	automatic fire from an M4 or M16 is critical. Is
4	No. It is not just one mission	4	that your testimony?
5	movement to contact. I could be on the street. I	5	MR. BRADY: Objection. Misstates the
6	could be out just trying to hand out water to the	6	testimony.
7	local kids and take chance contact.	7	THE WITNESS: Yes, sir. I would probably be
	I had an immediate planned	0	
8	-		able to identify five areas where automatic fire is
9	response at that point to execute. Whatever that	9	absolutely critical, and that would be a night
9 10	response at that point to execute. Whatever that element leader made up, he may use this document as	9 10	absolutely critical, and that would be a night ambush when the enemy is standing, and I am trying
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Page 118 kymoron. When I'm there, everything is ush. Take cover. Juderstood. And I'm just trying to d. So in your report you specifically ppression, use of automatic fire and on, but you didn't mention those other Why not?	2 3 4 5	Page 120 the building with a hand grenade, these are my propriety to get out. So the Marines stopped doing that. So that was the case where the tactical publication was absolutely incorrect, and the Marines, by de facto behavior, changed what they
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on, but you didn't mention those other		wratines by deligero pensylor changed what they
-		were doing. They started going from the bottom up.
why not?		
7 1		In were probably clearing rooms
Very lengthy responses with		like we were some police force getting ready to
lable variables.		issue an arrest warrant for about 10 days. And we
and are there publications from either		recognized we were taking too many casualties. So
or Marine Corps that you would point to		then we became the room looking force where if we
fy those scenarios as ones where you		thought there was a hostile in that building, we
e full automatic fire come in M4 or M16?	13	didn't go in. We isolated it. Cordoned it. We
BRADY: Objection. Vague. Incomplete	14	brought in an air-delivered JDAM, joint direct
cal.	15	attack munition, or we brought a tank to shoot it,
WITNESS: I don't know if the publications	16	or we brought a bulldozer and leveled the building.
ose weeds. We have a post-war battle	17	So our doctrine, we thought, was
t we will talk about urban room clearing.	18	invalidated with our behavior and Fallujah. It was
-	19	the first time we were able to use that doctrine
	20	since it had been written probably in the '60s.
g frangible bullets on ships.		Q. So prior to 2008, which was the date
		when we looked at an earlier publication, did
-		Marines in Iraq encounter night ambushes?
		Page 121
	1	THE WITNESS: Yes. They did. IED-initiated
		attacks with one or two support systems. Did the
-		Marines conduct night ambush? I'm sure
		Q. No. Did they
		A. Did they react probably not very
	-	often. It would probably be an IED strike and not
		ambush.
		They just didn't form enough
-		manpower to act that cohesively against us.
•		Q. Is it fair to say what you just
		described would also apply to soldiers in the army,
		Iraq
		5 0
		speculation.
	15	THE WITNESS: It does call for speculation.
ocuments, we teach room clearing. We	16	Unfortunately, the Army was tied
uple things, like enter from the top of	17	to their vehicles. Their actions didn't mirror
ng and work your way down.	18	ours. And I would totally speculate on what their
The Marines refused to do that	19	immediate action goals would be. But they tended
have so much armor on that we would cu	t 20	to suppress with their Bradley 25-millimeter
		Bushmasters, and not disload the infantry.
he ceiling when they would come in, if		
	22	-
he ceiling when they would come in, if casualty, they couldn't get the casualty	22	
	BRADY: Objection. Vague. Incomplete cal. WITNESS: I don't know if the publications hose weeds. We have a post-war battle at we will talk about urban room clearing. We have shipboard takedown urse. We talk about the use of automatic ag frangible bullets on ships. We have squad leader schools about trench warfare. We have a combined rcise out in Twentynine Palms that forces Page 119 h warfare. So not necessary the ons, but the schoolhouses would find we call them "tools in a toolbox." not a cookie cutter. Do this. Do that. s to think about in order to survive em, and then you decide. WELLS: n the time period from 2005 after, in ch you described earlier, which I think ated that the nature of the war changed, n-clearing operations still happening in 2005? don't know. I would think king operations were happening. In our ocuments, we teach room clearing. We ouple things, like enter from the top of ng and work your way down.	BRADY: Objection. Vague. Incomplete14cal.15WITNESS: I don't know if the publications16nose weeds. We have a post-war battle17at we will talk about urban room clearing.18We have shipboard takedown19urse. We talk about the use of automatic20ag frangible bullets on ships.21We have squad leader schools22about trench warfare. We have a combined23cise out in Twentynine Palms that forces24Page 119h warfare.1So not necessary the2ons, but the schoolhouses would find3 we call them "tools in a toolbox."4not a cookie cutter. Do this. Do that.5s to think about in order to survive6em, and then you decide.7WELLS:8n the time period from 2005 after, in9ch you described earlier, which I think10ated that the nature of the war changed,11n-clearing operations still happening in122005?13don't know. I would think14king operations were happening. In our15poule things, like enter from the top of17ng and work your way down.18

1	Page 122		Page 124
1	A. Yes, sir.	1	come back for three, and go back over for six or
2	Q. What is the 25-millimeter bushmaster?	2	seven.
3	A. It is a chain gun it is 25	3	In my case, I went over for five
4	millimeter equals one inch. So it is a one-inch	4	and went back for fifteen straight. And the nature
5	bullet. It is about a foot long with a lot of	5	of that war kept changing both on the enemy
6	power behind it. Seven or eight different munition	6	behavior, on assets available to us as new
7	options from training practice from armor	7	assets became available and then on our
8	incendiary to high explosive.	8	responses. And as more lawyers got involved.
9	It is a very heavy machine gun	9	We had legal teams at some
10	that is that a million-dollar ballistic	10	point, we had them at rifle platoon level at 40-man
11	calculated laser range enabled range finder to		unit. It started with one judge advocate general
	help aim.	12	at the regiment level a regiment of 10,000
13			people.
14	is the weapon that the Army would use for	14	And it ended with a judge
	suppression?	15	advocate general representative at every force,
16			trying to help shape our reaction to the enemy.
17	Vague and incomplete hypothetical.	17	I say "ended." Overtime it got
18		18	progressively harder to justify engagement.
19	their first response.	19	Q. Why do you think of that as resembling a
20		20	police force?
21	objective, they would dismount the force, and you	21	MR. BRADY: Objection. Misstates testimony.
	have got the full litany of small arms available	22	THE WITNESS: Police force. Their job is to
	from medium, heavy machine guns, grenade launchers,	23	not harm the civilians, right? Their job is to
	rifles.		read you your rights and apprehend.
	Page 123		Page 125
1	BY MR. WELLS:	1	Ours was to kill you. Our
2	Q. Prior to 2008, did soldiers and Marines	2	training was to destroy you. So having to ramp
3			down this 19-year-old kid that we have spent a year
4			and a half to kill everything in front of him and
5			get him to slowly read your rights or arrest you,
6	clearing"? High-intensity assault? Shoot		we weren't prepared for that.
	everything? Throw a grenade and kill everyone or	7	So in order to ramp that down,
	just go in to look?	8	that is when more and more restraints and
	BY MR. WELLS:		constraints and behavior controls were applied, and
- 9			we created rules. If you were on a machine gun,
9 10	Q. I mean foom cleaning as used carner in		
10			· · · ·
10	the deposition.	11	somebody shot at you, you had to yell a warning.
10 11 12	the deposition. A. I have to have the situation of the	11 12	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and
10 11 12 13	the deposition.A. I have to have the situation of the enemy to make that decision.	11 12 13	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and then shoot them in the time span of them trying to
10 11 12 13 14	the deposition.A. I have to have the situation of the enemy to make that decision.Q. You mentioned earlier that, you know,	11 12 13	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and then shoot them in the time span of them trying to kill you.
10 11 12 13 14 15	the deposition.A. I have to have the situation of the enemy to make that decision.Q. You mentioned earlier that, you know, past a certain time period, the way in which	11 12 13 14 15	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and then shoot them in the time span of them trying to kill you. At some point, like, 2008 and
10 11 12 13 14 15	 the deposition. A. I have to have the situation of the enemy to make that decision. Q. You mentioned earlier that, you know, past a certain time period, the way in which Marines and soldiers would operate you said like 	11 12 13 14 15	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and then shoot them in the time span of them trying to kill you. At some point, like, 2008 and beyond, it was no longer what we were good at was
10 11 12 13 14 15 16	 the deposition. A. I have to have the situation of the enemy to make that decision. Q. You mentioned earlier that, you know, past a certain time period, the way in which Marines and soldiers would operate you said like some police force. What did you mean by that? 	11 12 13 14 15 16 17	somebody shot at you, you had to yell a warning. Fire a pop-up at him. Shoot a warning shot and then shoot them in the time span of them trying to kill you. At some point, like, 2008 and beyond, it was no longer what we were good at was destroying things. They should not have sent us if
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32 (Pages 122 - 125)

Page 126	Page 128
1 MR. BRADY: Objection. Vague.	1 THE WITNESS: I don't remember any missile.
2 THE WITNESS: I've used it in an instruction	2 Missile implies control. I
3 to explain why that term has changed five times	3 launch it, and I can control it to the target.
4 during my career.	4 BY MR. WELLS:
5 BY MR. WELLS:	5 Q. Do you know which missile weapon is
6 Q. Have you ever written the lethality of	6 considered by military historians to have been
7 weapons has increased?	7 decisive at the battle of Agincourt?
8 A. Possibly.	8 MR. BRADY: Objection. Vague. Calls for
9 Q. Do you recall writing that the	9 speculation.
10 relationship between the lethality of weapons and	10 THE WITNESS: No, sir.
11 the dispersement of troops found on the same battle	11 BY MR. WELLS:
12 field has been a consideration for commander since	12 Q. Do you know what missile weapon English
13 man first engaged in combat?	13 troops, the battle of Agincourt, would have been
14 A. Absolutely.	14 equipped with?
15 Q. When did you write that?	15 MR. BRADY: Objection. Vague.
16 A. Probably in the late '90s. I was we	16 THE WITNESS: I do not.
17 were struggling to replace the M249. It was not	17 BY MR. WELLS:
18 working for us. The light machine gun was not	18 Q. I'm going to direct your attention
19 working for us. It was an automatic rifle. It was	19 Mr. Eby, I'm showing you a document labeled
20 too cumbersome. Too heavy. Got hot too fast.	20 "Automatic rifle concept Part One. History and
21 Failed to function when you were moving.	21 empirical testing."
22 So I was writing this for	22 Do you see that?
23 instance, in Agincourt, the year I don't know,	23 A. I do.
24 1,000. We put 10,000 people on a square, as in a	24 MR. WELLS: And for the court reporter, I'd
Page 127	Page 129
1 Napoleonic square.	1 like to mark this as an exhibit. I think we are up
2 Today we would put four Marines,	2 to Exhibit 5. Is that right?
3 because as lethality of systems increased; air,	3 THE COURT REPORTER: Yes.
4 naval, armor, weaponry, machine guns, mortars. As	
	4 BY MR. WELLS:
5 those increased, we could spread the force out and	5 Q. So I'm showing you what we are marking
5 those increased, we could spread the force out and6 had to increase survivability.	5 Q. So I'm showing you what we are marking 6 for identification purposes, Deposition Exhibit 5.
5 those increased, we could spread the force out and	5 Q. So I'm showing you what we are marking
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	Page 130		Page 132
1	commanders since man first engaged in combat."	1	matters more tomorrow than it does today, as my
2	Do you see that?		physical ability gets weaker over time.
3	A. I do.	3	So weight always matters.
4	Q. And that is the quote we read earlier,	-	Especially as that increases in time, duration and
5	and that is your word, "lethality." Is that right?		distance.
6	A. Yes.	6	Q. When you say "weight always matters,"
7	Q. And in that last same paragraph, it says		you are referring to the aggregate weight of the
8	"As lethality of weapons has increased, so has the		different materials that an infantryman is carrying
	dispersion necessary to preserve combat power."		into combat. Is that what you are referring to?
10	When you said "The lethality of	10	A. Yes, in sum. All weight that I'm
	weapons has increased," what were you referring to?		carrying on my body matter.
12	A. The range and capability of artillery	12	Q. Have you ever heard lethality being
	weapons. The range and capabilities of tanks,		discussed in conjunction with weight?
	which didn't come out until World War II.	13	MR. BRADY: Objection. Vague.
14	The enhancement of aviation that	14	THE WITNESS: Not that I recall. Well, yes I
	really started in World War I but became supreme by		have.
	World War II. Those systems changed the nature of		BY MR. WELLS:
	world warn. Those systems changed the nature of wars.	18	Q. Explain.
19	Forced dispersion as they were	19	A. The ease of getting the weapon except
	so explosive and dangerous covered more distance		a big rifle. I have to paint a picture in my
	and range and more explosive distance on the		brain again.
	ground.	21	The ease of getting a rifle into
23	Q. Do you believe that the lethality of		a firing position while in cover, weight matters.
	rifles has increased over time?		That variant you talked about earlier would be a
		21	
	Page 131		Page 133
1	Page 131 MR. BRADY: Objection. Vague.	1	Page 133 horrible weapon to jump into a leaning position
1 2	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so.	1 2	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is
1 2 3	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their	1 2 3	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from.
1 2 3 4	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the	1 2 3 4	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I
1 2 3 4 5	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we	1 2 3 4 5	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and
1 2 3 4 5 6	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier.	1 2 3 4 5 6	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my
1 2 3 4 5 6 7	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the	1 2 3 4 5 6 7	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets
1 2 3 4 5 6 7 8	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical.	1 2 3 4 5 6 7 8	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess
1 2 3 4 5 6 7 8 9	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has	1 2 3 4 5 6 7 8 9	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it.
1 2 3 4 5 6 7 8 9 10	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in	1 2 3 4 5 6 7 8 9 10	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor
1 2 3 4 5 6 7 8 9 10 11	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single	1 2 3 4 5 6 7 8 9 10 11	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter
1 2 3 4 5 6 7 8 9 10 11 12	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons.	1 2 3 4 5 6 7 8 9 10 11 12	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than
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1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document.
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can certainly get more hazardous to the human body, projectiles, at the individual level. Q. Why would weight be a relevant	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document. It is previously marked as Deposition Exhibit 1. It is your expert report with attachments. I'm looking at PDF 299.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can certainly get more hazardous to the human body, projectiles, at the individual level. Q. Why would weight be a relevant consideration in deciding what ammunition to use?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document. It is previously marked as Deposition Exhibit 1. It is your expert report with attachments. I'm looking at PDF 299. Directing your attention to the
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can certainly get more hazardous to the human body, projectiles, at the individual level. Q. Why would weight be a relevant consideration in deciding what ammunition to use? A. I think about my assault. I left Kuwait and I didn't get to Baghdad for 57 days. I didn't	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document. It is previously marked as Deposition Exhibit 1. It is your expert report with attachments. I'm looking at PDF 299. Directing your attention to the numbered paragraph 23. Reading this paragraph, do you recognize what this document is?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can certainly get more hazardous to the human body, projectiles, at the individual level. Q. Why would weight be a relevant consideration in deciding what ammunition to use? A. I think about my assault. I left Kuwait and I didn't get to Baghdad for 57 days. I didn't take my uniform off in those 57 days. I didn't	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document. It is previously marked as Deposition Exhibit 1. It is your expert report with attachments. I'm looking at PDF 299. Directing your attention to the numbered paragraph 23. Reading this paragraph, do you recognize what this document is? A. I do. I don't see the name, but this is
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 131 MR. BRADY: Objection. Vague. THE WITNESS: I don't think so. I think if anything, their range has increased. Their performance on the human body has decreased compared to that musket we talked about earlier. And part of that could be the ability of medical. Their accuracy certainly has increased which has enabled further hits, but in the last 30 years we degraded to the lowest single fire bullet we can use for other reasons. We wanted to manage the recoil. We wanted affordability. Less weight. So I can certainly get more hazardous to the human body, projectiles, at the individual level. Q. Why would weight be a relevant consideration in deciding what ammunition to use? A. I think about my assault. I left Kuwait and I didn't get to Baghdad for 57 days. I didn't	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 133 horrible weapon to jump into a leaning position behind the couch. It is heavy. It is long. It is difficult to move away from. If I have to move positions, I have this 50-inch long musket to move with, and weight adds up as I present the rifle into my shoulder to make a standing shot. That weight gets hole very quickly as I'm aiming, trying to assess where the enemy is at and point it. So now, weight and length factor together, so if it is heavy and closer and shorter and closer to my body, it is easier to manage than it is heavy and it is four feet out away from me. Q. Okay. I'm sharing with you a document. It is previously marked as Deposition Exhibit 1. It is your expert report with attachments. I'm looking at PDF 299. Directing your attention to the numbered paragraph 23. Reading this paragraph, do you recognize what this document is?

Page 134	Page 136
1 Q. But you recognize this as a document	1 THE WITNESS: I do not.
2 that you attached to your expert report?	2 BY MR. WELLS:
3 A. I do. I do.	3 Q. Why not?
4 Q. So looking at paragraph 23, it says,	4 A. Weight, balance, load is far easier with
5 "Considerations of the relative lethality of 5.56	5 that 556 than it is that 762. 762 may penetrate,
6 millimeter and 7.62 millimeter ammunition with the	6 but all I want to do is to duck, stay in position
7 possible exception to duplex, support all of the	7 while I bring something heavy to kill him.
8 CDCEC SAWS conclusions. It is concluded that there	8 I can do that with a small
9 are no tactically significant differences between	9 projectile.
10 5.56-millimeter and 7.62-millimeter ammunition per	10 Q. In your expert reports, you cite the
11 round of ammunition; however, 5.56-millimeter	11 U.S. Army Weapons Systems handbook. Do you recall
12 ammunition is significantly superior to	12 citing that document?
13 7.62-millimeter ammunition in lethality per pound	13 A. I do.
14 of ammunition, or per basic load carried by the	1314Q.And what generally is that document?
15 soldier."	15A.Probably a snapshot for Congress
16 Do you see that?	16 primarily to show what we are currently using, kind
17 A. I do.	17 of an update of changes. So if you haven't been
18 Q. And this is one of the documents that	18 paying attention, the systems change regularly.
19 you relied upon in formulating your opinion in this	19 You can get kind of a quick look of what is
20 case.	20 currently there.
21 Is that right?	21 Q. I've shared on the screen a document
22 A. That is.	22 with Bates Label OAG-8050 that says, "Weapon
	23 systems handbook 2020 to 2021." Do you see that?
Q. And do you have an understanding as towhat lethality per pound of ammunition means?	23 systems nandolok 2020 to 2021. Do you see mat: 24 A. I do.
Page 135	Page 137
1 A. It is too vague for me to determine. As	1 Q. Is this the document that you were just
2 I told you earlier, I've undergone five definitions	2 referring to?
3 of lethality during my time of service.	3 A. Yes.
4 What we thought was a big old	4 Q. This is the document that you cited in
5 theory, hydrostatic shot, which was a mistake to	5 your report?
6 now shock placement theory. Theories. All	6 A. Correct.
7 theories.	7 Q. Okay. So in your understanding that
8 We just were not ballisticians	8 this is a the document itself is hundreds of
9 and not forensic experts. I understand whoever	9 pages. Is that right?
10 wrote that believed that to be true. Maybe in some	10 A. Normally it is. I only see three here.
11 whatever his thoughts were at the time but he	11 Q. I've created an excerpt to make it a
12 certainly has more bullets per pound. Maybe that	12 little smoother for you, but you understand the
13 is how he is measuring it.	13 document as a whole, which has been produced in
14 Because a pound of 556 might	14 this litigation several hundred pages long, and
15 give you 100 bullets, and a pound of 762 might give	15 this is just an excerpt.
16 you 30. He has more opportunity, but lethality,	16 A. I understand.
17 I've been measuring it too many different ways to	17 MR. WELLS: And just for the record, I'd like
18 plant a flag on that definition.	18 to mark this as Deposition Exhibit 6.
19 Q. Do you agree with the statement that	19 (Deposition Exhibit 6 was marked
20 there are no tactically significant differences	20 for identification.)
21 between 5.56-millimeter and 7.62-millimeter	21 BY MR. WELLS:
22 ammunition per round of ammunition?	22 Q. It is OAG-8050, and then OAG-008351 to
23 A. I do not.	23 8352. Do you see that, Mr. Eby?
24 MR. BRADY: Objection. Vague.	24 A. I do.

35 (Pages 134 - 137)

Page 140 A. Not initially. Initially they tried to
ance the bullet and they created MA55-A1
anced performance bracket. The Marine Corps
rked simultaneously with its own SOST, special
erations science technology bullet, and then we
a huge fight at the Army/Marine Corps levels,
Congress had to order the Marine Corps to
ow suit with the Army, and take the M855A-1.
at was Stage 1. Get a bullet in existing
apons.
Then they went after what is a
ter solution. And ended up with a 6.8 x 51 mm.
Q. When you say "get a better bullet,"
ter how?
A. I think I don't know. I wasn't
sent for the evaluation, and they close hold all
t information. I can make some assumption, but
yould just be that.
Q. Let's look at this document. Just
oming in on Internal Pagination 300. It is
G-008531. This is deposition Exhibit 6. Top of
page says "Next generation squad weapons. I'm
king at the section that specifically says
enefit to the soldier." Do you see that?
Page 141
A. (No response.)
Q. Mr. Eby, can you see that?
A. I'm not finding it oh, yes, I do.
sorry.
Q. No. It's okay. Sometimes it's hard to
on screen. Okay.
Under "Benefits of the soldier,"
ays, "NGSW," which is Next Generation Squad
eapons program "significantly increases lethality
l probability at the squad level.
Due to the nature of the
neral purpose ammunition, the 6.8-millimeter
jectile will outperform even the most modern
6-millimeter and 7.62-millimeter ammunition.
These weapon systems will give
diers significant capability improvements and
curacy range, signature and lethality."
Do you see that?
A. I do.
Q. Is this the transition you were
scribing? The transition from the
6-millimeter round to the 6.8-millimeter
jectile?

36 (Pages 138 - 141)

	Page 142		Page 144
1	Q. Would you agree with me the way this	1	A. Usually referred to as sustained rate of
	program is described in this document is that		fire, 12, 15 rounds per minute.
	ransition would significantly increase lethality;	3	If it is going to use that term,
	s that right?		then you can create your own answer.
5	MR. BRADY: Objection. Vague. Misstates the	5	Q. Where did that fifteen rounds per minute
	locument.		figure come from?
7	THE WITNESS: I would be limited to say that	7	A. I think it was tied to the heat of the
	t improved accuracy, improve range, improve		barrel. We can find no evidence of any test ever
	ignature management. I can't define lethality.		performed that tells us X number of rounds, when
	BY MR. WELLS:		does the barrel get hot? We had general rules, but
10 1	Q. Can you define probability of hit?		when a barrel gets hot, we need fifteen minutes to
12	A. Yes, I can.		cool it down.
12	Q. What is that?	12	So we were very careful not to
13	A. Out of 10 out of 10 rounds, I will hit		get it hot. A weapon starts degrading as soon as
	nore often than a previous competitor.		it gets to 550 degrees. When rounds could cook off
15 11	So I will increase my hit		in the chamber.
	-	17	
-	otential under the same exact circumstances, and n this platform, because it has a fire control		These are all just general
	•		guidelines, kind of help shape your logistics. I
	ystem, it can give you range correct, it tells you		think, based on an enemy situation, it is going to
	what portion of the rifle to aim with, will		take me 5 minutes to get across from the last spot
	ogically increase hit potential.		to the enemy, I need 5 minutes' worth of ammo.
22	Q. Why is the probability of hit an	22	Can I add more ammo or do I need
	mportant metric?		to divide that five minutes into the ammo I am
24	A. In the marksmanship world that is how we	24	carrying? So we will build our combat prep based
	Page 143		Page 145
	neasured you. You fire 100 rounds. You hit 80 of		on these considerations.
	hem. That is how we keep score. In a combat	2	And then we will pre-issue
	cenario. We are not actually expecting hits. We		commands to at certain points, I have more
	ust want to keep you suppressed so we can kill you		exposed force, so I want you to increase your rate
	with other means. If we get hits out of that, by		of fire. When that exposed force goes undercover,
	ll means we are happy with that, but that is not		decrease your fire. And we manage that so we have
	he rule.		enough ammo to get through the fire.
8	Q. It notes here that the 6.8-millimeter	8	Q. Is management and preservation of
-	projectile that the Army is moving to is going to		ammunition an important consideration in combat?
	out perform even the most modern 5.56 millimeter,	10	A. Yes, sir because I don't know where it
	nd 7.62 millimeter. Do you see that?		is going to come from if I run out.
12	A. I do.	12	Q. How does the use of automatic fire
13	Q. Do you have an understanding why the		impact preservation of ammunition?
	Army would have chosen a 6.8-millimeter projectile	14	MR. BRADY: Objection. Vague.
	s opposed to a 7.62-millimeter projectile?	15	THE WITNESS: Clearly it does not, and we
16	A. I do not.		probably if it is a deliberate attack, and I
17	Q. Do you have an opinion about whether a		conducted the planning, I would never use automatic
1	5.8-millimeter projectile can outperform even the		fire until I get into the building or into the
19 n	nost modern 7.62-millimeter projectile?	19	trench.
20	MR. BRADY: Objection. Vague.	20	There are different applications
21	THE WITNESS: I do not. I don't have any		where I need to use it to survive. Best-case
1	xperience with the 6.8.		scenario, I don't use it at all. I pin him down
23 F	BY MR. WELLS:	23	with sufficient overwhelming fires, and I drop the
1 25 E			artillery until they are pounded.

	Page 146		Page 148
1	Q. So is it fair to say then, one of the	1	sustained rate, so approximating about 45 rounds
2	reasons why soldiers and Marines use automatic fire	2	per minute.
3	sparingly, and only out of necessity, is to	3	Q. Where you said generally defined.
	preserve ammunition?	4	Where would that be defined?
5	MR. BRADY: Objection. Vague. Incomplete	5	A. That is usually a marksmanship
6	hypothetical. Argumentative.	6	publication. That is a very valid technique if the
7			shooter has been trained well to manage recoil.
8	survival tool. I need it when my plan fell apart	8	Q. What if the shooter has not been
	or the enemy got a vote, I need to get out of a bad	9	adequately trained to manage recoil, would you
	situation.	10	recommend rapid semi-automatic fire?
11	Clearing rooms, again, is	11	MR. BRADY: Objection. Incomplete
12	extremely dangerous. We don't know how many are in	12	hypothetical.
	there, what weapons they are armed with, and we	13	THE WITNESS: I would not.
	overwhelm that with hand grenades and fire for our	14	BY MR. WELLS:
	self-preservation.	15	Q. Why not?
16		16	A. Deplete his combat load. Increase
	the open. I survive with high volume of fire at		danger on the reload process. Overheat his rifle
	the expense of my weapon. I may melt that gun. As		with no effect.
	long as I can get undercover and survive, and then	19	Q. You said that sometimes, though, rapid
	evaluate what is left of weapons.		fire could be a valid technique. In what
	BY MR. WELLS:		circumstances would rapid semi-automatic fire be a
22			valid technique?
	you mean?	23	MR. BRADY: Objection. Incomplete
24			hypothetical.
	Page 147		Page 149
1	2008, they melted their guns. The gas tube that	1	THE WITNESS: Hypothetical situation where th
	allows air to come out of the barrel and cycle the	2	range is probably too far for automatic fire to
	bolt, and that gas impingement system, those melted		control the burst on the target. So rapid fire
	in half. The gun was useless.		would allow there is a phrase we use called
			would unow there is a plituse we ase canea
5	The rifle got so hot that they		-
-	The rifle got so hot that they the bullets took it out. So now you have a		"controlled pairs" and "hammer pairs".
6		5 6	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight
6 7	the bullets took it out. So now you have a	5 6 7	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the
6 7	the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent.	5 6 7 8	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight
6 7 8	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? 	5 6 7 8 9	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the
6 7 8 9 10	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? 	5 6 7 8 9	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a
6 7 8 9 10 11	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared 	5 6 7 8 9 10 11	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target.
6 7 8 9 10 11 12	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they 	5 6 7 8 9 10 11 12	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that
6 7 8 9 10 11 12	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. 	5 6 7 8 9 10 11 12 13	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and
6 7 8 9 10 11 12 13 14	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. 	5 6 7 8 9 10 11 12 13	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the
6 7 8 9 10 11 12 13 14 15	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every 	5 6 7 8 9 10 11 12 13 14 15	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area.
6 7 8 9 10 11 12 13 14 15	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. 	5 6 7 8 9 10 11 12 13 14 15 16	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to
6 7 8 9 10 11 12 13 14 15 16 17	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. 	5 6 7 8 9 10 11 12 13 14 15 16 17	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on
6 7 8 9 10 11 12 13 14 15 16 17	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. So in that case, that was a good choice either that or they would all be dead. 	5 6 7 8 9 10 11 12 13 14 15 16 17	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on that shooter, and that shooter's capabilities to
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. So in that case, that was a good choice either that or they would all be dead. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on that shooter, and that shooter's capabilities to manage recoil over automatic fire.
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. So in that case, that was a good choice either that or they would all be dead. Q. Are you familiar with rapid semi-automatic fire? 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on that shooter, and that shooter's capabilities to manage recoil over automatic fire. Q. And you said rapid semi-automatic fires three times the sustained rate, and that
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. So in that case, that was a good choice either that or they would all be dead. Q. Are you familiar with rapid semi-automatic fire? A. I am. It's an Army term. I don't know 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on that shooter, and that shooter's capabilities to manage recoil over automatic fire. Q. And you said rapid semi-automatic fires three times the sustained rate, and that approximates to 45 rounds per minute.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 the bullets took it out. So now you have a smooth musket, perhaps. The barrels got so hot they bent. Q. What caused that melting? A. Being overwhelmed. Not being prepared for 200 people to attack 48. And then they fired full auto. It is that or die. That will get overrun. So in that full auto with every magazine they had, they ruined their guns, but they defeated the enemies' attack in doing so. So in that case, that was a good choice either that or they would all be dead. Q. Are you familiar with rapid semi-automatic fire? A. I am. It's an Army term. I don't know that the Marine Corps picked it up yet. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"controlled pairs" and "hammer pairs". Hammer pairs, I see the sight one time and I fire two bullets. I pull the trigger twice to get hammered, but I only saw the site one time for accurate alignment. That is a very close proximity and target. And if I were measuring me, that might be at 50 meters, I would have to stop and start finding the shot in order to control the beaten zone into the target area. Rapid fire would be superior to automatic fire at a certain distance, depending on that shooter, and that shooter's capabilities to manage recoil over automatic fire. Q. And you said rapid semi-automatic fires three times the sustained rate, and that

38 (Pages 146 - 149)

	Page 150	Pas	ge 152
1		1 page describes slow semi-automatic fire or rapid	
2	Q. How does that impact how does the	2 semi-automatic burst fire?	
3		3 A. I do.	
4		4 Q. And those figures you gave before, wer	e.
	hypothetical.	5 I think, 12 to 15 rounds of what you called	- ,
6		6 sustained fire. Do you see that underneath "slov	v
	magazine at different speeds. It is a rehearsed	7 semi-automatic fire"? Do you see that?	
	behavior. It is a gear and location requirement.	8 A. I do.	
	Individual training requirement. I could give you	9 Q. And so you said the Army uses the term	ı
	assumptions of trained shooter versus untrained	10 "slow semi-automatic fire." You would characte	
	shooter.	11 this as "sustained fire"; is that correct?	
12		12 A. That is right. People may have changed	1
	do so. You know, it is not uncommon for a trained	13 their mind because we tend to steal these	-
	shooter to change magazines in one and a half	14 publications and throw a camouflage cover on it	and
	seconds.	15 claim we wrote it.	unu
16		16 Q. And under "rapid semi-automatic fire,"	
	I've spent time with on NRA training, that had to	17 that 45 rounds per minute figure that you quoted	
	be 10 seconds to change their magazine. So that	18 earlier, you see that reflected here. Is that	
	would affect overall their fire if those are	19 right?	
	fictional numbers that we can't scientifically	20 A. I do.	
	prove true.	21 Q. Under automatic or burst fire, there is	
$\begin{vmatrix} 21\\22 \end{vmatrix}$	-	22 no numerical value for rounds per minute. Do y	011
	page 254 of your expert report and attachments. Do	23 have an understanding as to why that might be?	ou
	you recognize this document?	24 MR. BRADY: Objection. Calls for specula	tion
	Page 151		ge 153
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	j i i i i i i i i i i i i i i i i i i i	1 THE WITNESS: In the fire engagement, I the	
	training circular or ATP? I recognize it from one	2 we train too specifically. We don't expect that to)
.	of those.	3 happen beyond one magazine, so it is 20 or 30	
		4 rounds. Well, it is not even that. We don't load	
	TC3229, "rifle and carbine." Are you familiar with	5 30. We load 28 because the spring system gets t	
	that?	6 tight, and the magazine won't lock on the weapo	n.
		7 So with a 30 magazine holds 28	
		8 rounds. In those engagements where my life is a	
	your rebuttal report, and it says "Rifle and	9 risk, and I have ordered an immediate action dri	ll
	carbine"?	10 to use automatic fire, it is very limited in	
11		11 duration.	
12		12 BY MR. WELLS:	
13	,	$\begin{bmatrix} 13 \\ 14 \end{bmatrix}$ Q. Okay. And tell me again what burst fire	e
1 1/1	BY MR. WELLS:	14 is?15 A. Burst is a trigger limiter that only	
		LIN A Burst is a trigger limiter that only	
15	-		
15 16	attach to your rebuttal report. Is that right?	16 allows three rounds be fired for every pull or	
15 16 17	attach to your rebuttal report. Is that right?A. That is correct.	16 allows three rounds be fired for every pull or17 every trigger bullet.	
15 16 17 18	attach to your rebuttal report. Is that right?A. That is correct.Q. Okay. So going back to the page I was	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 	
15 16 17 18 19	attach to your rebuttal report. Is that right?A. That is correct.Q. Okay. So going back to the page I was at previously, which is, again, 254, and a PDF, and	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 19 installed that limits three rounds to one trigger 	
15 16 17 18 19 20	attach to your rebuttal report. Is that right?A. That is correct.Q. Okay. So going back to the page I was at previously, which is, again, 254, and a PDF, and it is 86 page 86 "internal pagination." It is	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 19 installed that limits three rounds to one trigger 20 pull? 	
15 16 17 18 19 20 21	 attach to your rebuttal report. Is that right? A. That is correct. Q. Okay. So going back to the page I was at previously, which is, again, 254, and a PDF, and it is 86 page 86 "internal pagination." It is Chapter 8 at the top, and it says "Rate of fire." 	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 19 installed that limits three rounds to one trigger 20 pull? 21 A. It is anecdotal. As I understand it, it 	
15 16 17 18 19 20 21 22	 attach to your rebuttal report. Is that right? A. That is correct. Q. Okay. So going back to the page I was at previously, which is, again, 254, and a PDF, and it is 86 page 86 "internal pagination." It is Chapter 8 at the top, and it says "Rate of fire." Do you see that? 	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 19 installed that limits three rounds to one trigger 20 pull? 21 A. It is anecdotal. As I understand it, it 22 was logisticians wanting to apply how much bull 	
15 16 17 18 19 20 21	 attach to your rebuttal report. Is that right? A. That is correct. Q. Okay. So going back to the page I was at previously, which is, again, 254, and a PDF, and it is 86 page 86 "internal pagination." It is Chapter 8 at the top, and it says "Rate of fire." Do you see that? A. I do. 	 16 allows three rounds be fired for every pull or 17 every trigger bullet. 18 Q. Why would there be a trigger limiter 19 installed that limits three rounds to one trigger 20 pull? 21 A. It is anecdotal. As I understand it, it 	/

	D 154		De 15/
1	Page 154 how much you shot that range, but, two, to limit	1	Page 156 leader has to determine what he is going to take
	your ability to overheat the weapon.		forward based on his evaluation of the situation.
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	Q. And you said it was whose decision? The		BY MR. WELLS:
	logisticians?	4	Q. Are you familiar with the scenario that
5	A. Logisticians. They have to pre-plan how		Colonel Tucker has referenced at various points in
	much ammunition we get each year in training. How		which the Marine Corps was running very low on
	much we are using in war.		ammunition in the battle of Fallujah? Do you
8	They pre-plan these logistical	8	recall are you aware of that situation?
	load outs. For them, that benefited. For us, it	9	MR. BRADY: Objection. Vague.
	was a horrible idea. For the fighter this is one	10	THE WITNESS: I'm not.
	of the worst designs ever built because the trigger	-	BY MR. WELLS:
		11	Q. All right. I'm going to direct your
	went through different trigger pulls as it went		attention now of page 148 of this same PDF, which
	through different sear positions, and it prevented		is still within the same rebuttal Exhibit 4.
	in a life critical moment from having access to full auto.	14	
	And as I mentioned, we have		Rebuttal Exhibit 4 of your rebuttal report, do you see in PDF 148, which is,
16	since moved away from this. We've gone back to		
			21. Do you see that?
	full auto, but it took us 40 years to do.	10	A. I see that.
19	Q. When you logisticians, are those members	20	
	of the Marine Corps or who are these logisticians?	20	Q. What is being shown in Table 21 here?
21	A. Logisticians are occupational, both Army		A. Switch levers, overall barrel length,
	and Marine Corps, who have an influence on how much	22 23	5
	ammunition we get to train, how much they have to buy.		Q. And you see the left column? It says "weapon, M16-A2, M16-A3, M16-A4." What is that
	Page 155		
	rage 155		Page 157
1	As a matter of fact, in the	1	describing?
2	As a matter of fact, in the training and readiness manual that depicts what	1 2	describing? A. The M16 series of weapons.
2 3	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps,	2 3	describing? A. The M16 series of weapons. The Marine Corps never bought
2 3	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in	2 3 4	describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the
2 3	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill.	2 3 4 5	describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we
2 3 4 5 6	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of	2 3 4 5	describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1.
2 3 4 5 6 7	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual,	2 3 4 5 6 7	 describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes
2 3 4 5 6 7 8	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556	2 3 4 5 6 7	describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers
2 3 4 5 6 7 8 9	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556 bullets for every individual rifleman. Yet I only	2 3 4 5 6 7 8 9	describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers and Marines?
2 3 4 5 6 7 8 9 10	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556 bullets for every individual rifleman. Yet I only get 500.	2 3 4 5 6 7 8 9 10	 describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers and Marines? A. That is correct.
2 3 4 5 6 7 8 9 10 11	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556 bullets for every individual rifleman. Yet I only get 500. So they have an overall	2 3 4 5 6 7 8 9 10 11	 describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers and Marines? A. That is correct. Q. And the next column set of columns,
2 3 4 5 6 7 8 9 10 11 12	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556 bullets for every individual rifleman. Yet I only get 500. So they have an overall influence about what they are willing to buy, and	2 3 4 5 6 7 8 9 10 11 12	 describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers and Marines? A. That is correct. Q. And the next column set of columns, where it says "selector switch positions." Do you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	As a matter of fact, in the training and readiness manual that depicts what skills we need to perform for the Marine Corps, they did not buy the ammunition, that is written in those documents sufficient to develop a skill. They gave us a flat rate of ammo. So for instance, in my training manual, it might call for ten thousand rounds of 556 bullets for every individual rifleman. Yet I only get 500. So they have an overall influence about what they are willing to buy, and they don't let the training and readiness manual that we use to develop skills to change their mind. Q. You would agree, though, that running out of ammunition in combat is a major issue, right? A. Absolutely. Q. And the role of the logisticians is to plan to make sure that there is enough ammunition for war fighters. Is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 describing? A. The M16 series of weapons. The Marine Corps never bought the A3. The U.S. Navy bought it. We went from the M16 to the A1 to the A2 to the A4. And then we switched from the M4 to the M4-A1. Q. And so the left column then describes the different rifles that were issued to soldiers and Marines? A. That is correct. Q. And the next column set of columns, where it says "selector switch positions." Do you see that? A. I do. Q. What is being described in those three columns? A. The three different settings and type of behavior of the weapon when you choose a semi. I can shoot semi. One shot for one pull, or I can have the option depending on the variant, three-round burst or full auto.

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1 A. That is correct.	1 Q. So all of the rifles you carried in the
2 Q. And there is no full auto?	2 Marine Corps, only had burst fire, and no full
A. There is no full auto	3 automatic capability. Is that right?
4 MR. BRADY: Objection. Vague.	4 A. From that chart you are missing the
5 BY MR. WELLS:	5 M16-A1 that did have full auto, which I did carry.
6 Q. The M16-A3 are safe, semi and auto. Do	6 I did carry an M4-A1 in a limited duration for a
7 you see that?	7 three-year period. Very short duration.
8 A. I do. That is correct.	8 So I would carry everything, but
9 Q. And does auto there refer to full	9 the M16-A3 from that, and in addition, I would have
10 automatic?	10 had the M16-A1.
11 A. Yes, sir.	11 Q. And the M16-A1 was full automatic?
12 Q. And that full automatic would be as	12 A. I believe so. There were two. M16,
13 long as you are squeezing the trigger rounds you	13 M16-A1. They are original, and the original weapo
14 are going to be firing until the magazine is	14 I carried was full auto.
15 exhausted. Is that right?	15 Q. But subsequent to that, the weapons that
16 A. That is correct.	16 you carried only had burst fire; is that right?
17 Q. And that is different than the burst of	17 MR. BRADY: Objection. Vague.
18 fire you described earlier where as long as you are	18 BY MR. WELLS:
19 squeezing the trigger, the most you are going to	19 Q. What was your answer?
20 get is three shots in one squeeze. Is that right?	20 A. Yes. Only had burst fire for the
21 A. That is correct.	21 majority.
22 Q. In M16-A4, the selector switch position,	22 Q. What was your understanding as to why
23 it says "safe, semi and burst." Do you see that?	23 the military switched from an M16 with full
24 A. I do.	24 capability to an M16 with only burst fire
Page 159	Page 16
1 Q. And, again, that is burst is three	1 capability?
2 shots. There is no list for listing of full	2 MR. BRADY: Objection. Calls for speculation
3 automatic selector switch position for M16-A4; is	3 Misstates testimony.
4 there?	4 THE WITNESS: To preserve ammunition.
5 A. There is not.	5 We did not have the marksmanship
6 Q. All right. So just focusing on the M16	6 training program to incorporate accurate automatic
7 variants here. So for the M16-A2 and M16-A4, which	7 fire.
8 you said are the only ones that the Marine Corps	8 All of our marksmanship training
9 actually used. They didn't use M16-A3. Those	9 was bulls-eye training designed by the NRA in 1908
10 rifles, the M16-A2 and M16-A4, did not have full	10 and that is the only way we measured success was t
	10 and that is the only way we measured success was t
11 automatic capability on them; is that right?	11 shoot very slow and methodically from very stilled
11 automatic capability on them; is that right?	
 automatic capability on them; is that right? A. That is correct. Q. And those are the rifles well, let's 	11 shoot very slow and methodically from very stilled12 firing positions of standing, kneeling, prone or13 squatting for one shot, one hit measures.
 automatic capability on them; is that right? A. That is correct. Q. And those are the rifles well, let's go to the M4. 	 11 shoot very slow and methodically from very stilled 12 firing positions of standing, kneeling, prone or 13 squatting for one shot, one hit measures. 14 We didn't measure anything
 automatic capability on them; is that right? A. That is correct. Q. And those are the rifles well, let's go to the M4. So the M4 you see it says "safe, 	 11 shoot very slow and methodically from very stilled 12 firing positions of standing, kneeling, prone or 13 squatting for one shot, one hit measures. 14 We didn't measure anything 15 tactically.
 automatic capability on them; is that right? A. That is correct. Q. And those are the rifles well, let's go to the M4. 	 11 shoot very slow and methodically from very stilled 12 firing positions of standing, kneeling, prone or 13 squatting for one shot, one hit measures. 14 We didn't measure anything 15 tactically. 16 Q. Was the military also concerned with
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 automatic capability on them; is that right? A. That is correct. Q. And those are the rifles well, let's go to the M4. So the M4 you see it says "safe, semi and burst." Is that right? A. That is correct. Q. And then the next line M4-A1, "safe, semi and auto." "Auto" is referring to full automatic? A. Yes. 	 11 shoot very slow and methodically from very stilled 12 firing positions of standing, kneeling, prone or 13 squatting for one shot, one hit measures. 14 We didn't measure anything 15 tactically. 16 Q. Was the military also concerned with 17 increasing hits on target? 18 A. In the marksmanship range, yes. And the 19 tactical scenarios, no. In the tactical scenarios, 20 you don't see your target. You see an area. You 21 have to suppress the area.

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1	out per trigger pull, forcing you to reset the	1	same calculus apply that you would want to use full
	trigger, which made that extremely dangerous.		automatic fire in a home defense scenario?
	Because now, when I'm trying to get out of a near	3	MR. BRADY: Objection. Vague. Incomplete
	ambush or run into a house, I can't shoot	-	hypothetical. Calls for speculation.
	everything in the house. I have to keep resetting		BY MR. WELLS:
	the trigger.	6	A. If the cost of doing so wasn't so
7	Q. When Marines are being trained on the	7	
	amount of rounds they should discharge in full		lives.
	automatic fire per trigger pull, how many rounds	9	Q. When you say the cost of doing so
	are they trained per trigger pull for full	-	weren't so exorbitant. What do you mean?
	automatic fire?	11	A. The NFA made fully automatic rifles
12	MR. BRADY: Objection. Vague.		\$40,000 each. I can get an AR or a semi-automatic
12	THE WITNESS: We try to get them to control it		for 500. That is a pretty high price to pay for a
	down to three to five, because that manages the		middle-class person, even if they chose to get the
	recoil to keep the shots. But if they had to vote,		training and they understand how to use it
	if they are three feet off of the target as the are		properly. The price of entry is too high.
	entering the room, just pull the trigger until it	17	Q. So just setting aside the cost
	is out of ammo.		consideration. So if the price were the same
19	So that is where that full auto		between a semi-automatic AR-15 and a full automatic
	helps if a condition requires it.		AR-15, if that were legal and able to be purchased,
20	Q. So when the Marines are trained to use		would you recommend for self-defense scenarios in
	full automatic fire, they are trained to use three		the home a full automatic AR-15?
	bursts of fire?	22	MR. BRADY: Objection. Vague. Incomplete
23	MR. BRADY: Objection. Misstates testimony.		hypothetical.
27	· · · ·	27	
1	Page 163 Vague. Incomplete hypothetical?	1	Page 165 THE WITNESS: I would recommend a full
$\begin{vmatrix} 1\\2 \end{vmatrix}$	THE WITNESS: During the initial training, we		automatic pistol caliber carbine to reduce weight,
	try to get them to control the three to five		length, portability, maneuverability to increase
	three to five rounds we need to try to fix their		the volume of fire so I win this fight. Yes.
	body position to manage the recoil.		BY MR. WELLS:
6	During advanced training, we	6	Q. In untrained civilian hands, you would
	don't give them a limit. They determine that based		recommend a full automatic pistol carbine for use
	on the situation they are in.		in self-defense in the home?
9	So during advanced training of	9	MR. BRADY: Objection. Misstates testimony.
	shipboard tactic or close-quarter battle, they	-	Argumentative. Vague. Incomplete.
	decide how many rounds they need to finish the	11	THE WITNESS: I would require a training
	fight.		program for that.
	BY MR. WELLS:	12	MR. WELLS: It's 12:28. We've been going an
13	Q. And you specifically mentioned	-	hour and 15 minutes since the last break.
	room-clearing scenarios. Is that a scenarios is	14	Would you like to take a lunch
	that a scenario in which you would expect		break? Is that okay to you?
	full-automatic fire to be used?	17	THE WITNESS: It's up to you. I'm fine.
1 1	MR. BRADY: Objection. Misstates the	18	MR. WELLS: Okay. Why don't we take a lunch
18	-		break so I can see if I can try to cut some stuff
18	Testimony vague incomplete hypothetical	1.1	-
19	testimony. Vague. Incomplete hypothetical. THE WITNESS: Yes. That is one of the	20	To make this process a little more streamline is
19 20	THE WITNESS: Yes. That is one of the		to make this process a little more streamline. Is that okay?
19 20 21	THE WITNESS: Yes. That is one of the scenarios I would expect full auto to save their	21	that okay?
19 20 21 22	THE WITNESS: Yes. That is one of the scenarios I would expect full auto to save their life.	21 22	that okay? THE WITNESS: Yes, sir.
19 20 21 22	THE WITNESS: Yes. That is one of the scenarios I would expect full auto to save their	21	that okay?

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1	MR. WELLS: Back on the record at 1:15.	1	real words. It means something to them.
2	BY MR. WELLS:	2	Q. So who specifically is using this
3	Q. Mr. Eby, as a reminder, you are still	3	document that we are looking at if it means
4	under oath.	4	something to them?
5	Did you have a good lunch?	5	A. Probably your colonel and above.
6	A. No. I just had a lunch.	6	Q. It says at the top there, "Peer threats
7	Q. All right. Fair enough. Mine wasn't so	7	contest the joint force and all that remains
8	good either.		through several methods." Do you see that?
9	All right. I'd like to ask you	9	A. I do.
10	about the term "peer opponent. Your report uses	10	Q. And we said peer threat opponent,
	the term "peer opponent." What does that mean?	11	earlier, but is peer threat the same thing as peer
12	A. Equal in force across multiple		opponent?
	war-fighting functions is what that means.	13	A. It is. These are, again, couple
14	They are equal to us in space		relatively recent terms that come out.
	capabilities, cyberspace, air, sea, land. But it	15	We didn't really use these words
	also means they have a well-trained force. They		when focused on Afghanistan, Iraq or Vietnam. We
	have leadership courses to teach their leaders		didn't consider them equal to our capabilities or
	instead of restricted course where you tend to get		cross-war functions. This is coming out more
	only the leaders that had any education.		recent probably in the last 10, 15 years.
	Everybody else is just ordered to be that.	20	Q. You retired from the military when?
			-
21	So a well-trained peer force can	21	
	match our capabilities across all of the war	22	Q. And were these terms being used in 2010
	fighting functions and spectrums, and they equal or		when you retired from the military?
24	exceed us in mass.	24	A. They were just beginning. It was our
	Page 167		Page 169
	XX71 1.1 1.1	1	· · · · · · · · · · · · · · · · · · ·
1	Where we would no longer have		group mainly. They were trying to shape their
2	this five-to-one ratio we were accustomed to in the	2	understanding of how the threat is changing. So
2 3	this five-to-one ratio we were accustomed to in the last 60 years.	2 3	understanding of how the threat is changing. So these are all and this is still what it is
2 3 4	this five-to-one ratio we were accustomed to in the last 60 years. Q. I'm going to show you a section from	2 3 4	understanding of how the threat is changing. So these are all and this is still what it is doing. This will probably change a couple more
2 3 4 5	this five-to-one ratio we were accustomed to in the last 60 years. Q. I'm going to show you a section from your expert report. It is a document that we	2 3 4 5	understanding of how the threat is changing. So these are all and this is still what it is doing. This will probably change a couple mor times because it is all relatively new.
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$2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	 this five-to-one ratio we were accustomed to in the last 60 years. Q. I'm going to show you a section from your expert report. It is a document that we previously looked at. That is marked FM30, date stamped October 1st, 2022. It is Exhibit 1 to your initial expert report. What is this document? A. It is FM30, 3-0 is operations. It is that general baseline of how to consider organizing your force and what assets have available. These, again, are designed to give you best practice thoughts to shape your mind. This is not a higher level. This will be more of an operational level of two-star generals need this level of education. Q. Is this is a concept that you as a Marine gunner would have trained on? A. In conversation only. It would not have been my deliberate training as mine were more individual and weapons, but having an understanding 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	understanding of how the threat is changing. S these are all and this is still what it is doing. This will probably change a couple mor times because it is all relatively new. Q. When was the first time you heard the phrase peer threat in the military? A. I don't recall. I actually we used general terms like this, "forces of equal capabilities" in the early '80s. We were doing methodical warfare at the time. Talking about the fights against Russia really during the Cold War, where we considered them a peer threat. Then it kind of went away when we started talking low intensity for 20 years, an now it is coming back again. I don't remember we used the exact word "peer," but "equal force "Equal capabilities." Q. All right. And you mentioned earlier joint force well, we didn't discuss joint force.
$2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 $	this five-to-one ratio we were accustomed to in the last 60 years. Q. I'm going to show you a section from your expert report. It is a document that we previously looked at. That is marked FM30, date stamped October 1st, 2022. It is Exhibit 1 to your initial expert report. What is this document? A. It is FM30, 3-0 is operations. It is that general baseline of how to consider organizing your force and what assets have available. These, again, are designed to give you best practice thoughts to shape your mind. This is not a higher level. This will be more of an operational level of two-star generals need this level of education. Q. Is this is a concept that you as a Marine gunner would have trained on? A. In conversation only. It would not have been my deliberate training as mine were more	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	understanding of how the threat is changing. S these are all and this is still what it is doing. This will probably change a couple mor times because it is all relatively new. Q. When was the first time you heard the phrase peer threat in the military? A. I don't recall. I actually we used general terms like this, "forces of equal capabilities" in the early '80s. We were doing methodical warfare at the time. Talking about the fights against Russia really during the Cold War, where we considered them a peer threat. Then it kind of went away when we started talking low intensity for 20 years, an now it is coming back again. I don't remember we used the exact word "peer," but "equal force "Equal capabilities." Q. All right. And you mentioned earlier

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	Page 170		Page 17
1	Q. What are domains?	1	sentence, but that would be an example.
2	A. Air, sea, land, cyber and space.	2	Q. How does an adversary's ability to
3	Q. Do you see this illustration here that	3	contest U.S. forces in space impact whether a
4	has kind of a black square and a blue square and a	4	rifleman uses semi-automatic or automatic fire in
5	green and blue square?	5	combat?
6	A. I do. I do.	6	MR. BRADY: Objection. Incomplete
7	Q. And next to that are labels of space,	7	hypothetical. Vague.
8	cyberspace, air, land and maritime. Are those the	8	THE WITNESS: I would have to struggle and
9	domains?	9	figure out a way that is used for satellites, or
10	A. Yes.	10	sensors may need to decide which greater fire to
11	Q. And I think you said earlier what	11	use. I can't think of one.
12	defines a peer threat. The ability to contest the	12	BY MR. WELLS:
13	joint force, so the combined U.S. forces and	13	Q. You wrote in your report that the only
14	potentially allies in all domains. Is that right?	14	reason U.S. forces have employed semi-automatic
15	MR. BRADY: Objection. Misstates the	15	rifle fire during the last 60 years of combat is
16	testimony.	16	due to our fighting non-peer enemies over this
17	THE WITNESS: It is, and there is an entire		duration. Low-intensity combat in Iraq,
8	definition to that, meaning that if they can	18	Afghanistan, criminal behavior in Panama or police
	contest us in air, it is for limited amount of	19	action in Vietnam. Was that your opinion?
20	time. And limited space, if they can create a	20	A. Yes, sir.
	moment of superiority, then they have contested or	21	Q. What was the basis for this opinion?
	overwhelmed us in that asset.	22	A. Numerically outnumbering all of our
23	BY MR. WELLS:	23	opponents on all of those engagements. Not meetin
24	Q. Has the number of domains increased over		all of the other assets of cyber and space. And
	Page 171		Page 17
	- 480 171		1 460 17
1	time?	1	very little maritime since World War II.
1 2	-	1 2	_
2	time?	2	very little maritime since World War II.
2 3	time? A. Cyber increases what I remember the	2 3	very little maritime since World War II. So we had not fought anybody that equaled us in mass. We had in 60 or 70 years
2 3 4	time? A. Cyber increases what I remember the most. Recently added. And then space is	2 3 4	very little maritime since World War II. So we had not fought anybody that equaled us in mass. We had in 60 or 70 years
2 3 4 5	time? A. Cyber increases what I remember the most. Recently added. And then space is relatively new. As we consider navigational	2 3 4 5	very little maritime since World War II. So we had not fought anybody that equaled us in mass. We had in 60 or 70 years now, benefited from having overwhelming mass at
2 3 4 5 6	time? A. Cyber increases what I remember the most. Recently added. And then space is relatively new. As we consider navigational capabilities and satellites and centers. The space	2 3 4 5	very little maritime since World War II. So we had not fought anybody that equaled us in mass. We had in 60 or 70 years now, benefited from having overwhelming mass at point of contact against untrained as a matter of fact, they didn't even throw on uniforms.
2 3 4 5 6 7	time? A. Cyber increases what I remember the most. Recently added. And then space is relatively new. As we consider navigational capabilities and satellites and centers. The space part came first, and now cyber is now we consider	2 3 4 5 6 7	very little maritime since World War II. So we had not fought anybody that equaled us in mass. We had in 60 or 70 years now, benefited from having overwhelming mass at point of contact against untrained as a matter
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	Dage 174		Dage 176
A. I know they	Page 174 equaled us on ground and	1	Page 176 personal opinion?
	ot continue to research to	2	A. Yes, sir, it is.
3 see if they had capat		3	Q. Are there other experts that you can
•	y "equal," you are referring		point to who share that opinion and have stated so
5 to numerical equality			in writing?
	asions, no. We really had	6	A. Ron Hathaway has stated so in his
7 the ability to match a	-		educational terms of instruction out of 2nd Marine
8 equal or outnumber	-		Division, but I haven't screened everything that
-	ceed our capability. Meaning		the active force has been talking about in the last
			15 years.
-		11	Q. And is that writing from Mr. Hathaway
12 our naval.			something you consider in formulating your opinion
13 In that c			in this case?
	gunners, tanks, to overwhelm our	14	A. Not at all. It was corroboration. My
	-		opinion has already been formed based on the
16 individual parts.			experience I had in the corps, and understanding we
-			could be fighting Russia. That is really what
			drove my behaviors and understanding of our
	-	19	capabilities and preparations in my early years of
			service. And it was a hard switch for me to switch
		21	over to this low-intensity combat.
		22	Q. And is that publication that you
23 certainly won't find i	t in the next thirty seconds.	23	reference from Mr. Hathaway, is that publication
		24	you have access to?
	Page 175		Page 177
1 that make this assert	ion?	1	A. I could have. I don't have access to it
A. Not to that	deliberate nature, no.	2	right now. He explained this to me in a
-	e not aware of any U.S. Marine		conversation that he has been doing these
4 publications that ma	ke this assertion?	4	educational points.
5 A. I am aware	that the 2nd Marine Division	5	That would be accessible if you
	g educational peer instruction	6	want to look through it.
7 to revitalize the idea		7	Q. Did you review that publication in any
	people have taken away from	8	way in conjunction with your work in this case?
	or that we haven't used them,	9	A. No. I just had a conversation with
10 therefore, more likel	-		Gunner Hathaway.
	1	11	Q. When did that conversation happen?
	,	12	A. Maybe the first week of May.
	0 0 0	13	Q. What prompted you to have that
14 the 2nd division by	•		conversation?
		15	A. We were talking, already, about Marine
			Gunner Association and asked him what had he been
17 what we are concern	-		doing.
		18	He told me that a high
19 conclusions.			preponderance of Marine gunners had been selected
20 Q. So is it fair			from the scout sniper background. Single-rifle,
	-		single-shot mentality. And he was having a hard
			time with the upcoming gunners recognizing the
25 last 60 years of com	bat is due to our fighting	23	value of fires; therefore, he had created this
24	ver this duration? Is that your	24	period of instruction to talk about it again, and

Page 178	Page 180
1 start a resurgence of understanding why that is	1 equal capabilities across all domains of war.
2 valuable and why not.	2 They could very easily be coined as criminal
3 Q. Why did he want to create a resurgence	3 behavior. They don't often mass forces. They are
4 of that understanding?	4 not often state supported. We don't bring all
5 MR. BRADY: Objection. Calls for speculation.	5 weapons to bear.
6 Vague.	6 Q do you you were in combat in
7 THE WITNESS: Specifically because the snipers	
8 were trying to go away from the former snipers	8 A. Yes.
9 who are now Marine gunners were so focused on	9 Q. Was that low-intensity combat?
10 well-aimed shots and his educational discussion	10 A. It actually was even though it is
11 was recognizing that we seldom see who we shoot at.	11 dangerous to the person entering the room. It is
12 Recognizing that we seldom see who we shoot at.	12 still low intensity combat.
13 And we shoot at areas. We shoot at specifically	13 They did not have tanks. They
14 that bunker, that door, this window. We would do	14 did not have air capability. They did not have
15 that to pin somebody down.	15 space capabilities. They might have had cyber.
16 He is concerned that we would	16 They did not have space capabilities.
17 lose our volume because we know that what creates	17 So all of those categories, it
18 suppression is sufficient, accurate rounds.	18 breaks down to low-intensity of no mass formations,
19 So sufficient is dependent upon	19 no overly trained force. No react forces or
20 the situation. We can't tell you how many rounds	20 reinforcements.
21 are sufficient. We don't know if they are accurate	21 Q. Did you ever communicate to your fellow
22 until after the fight when we destroy the enemy	22 in Marines in Fallujah what they were experiencing
23 because we don't see the enemy. We see the bodies	23 was low-intensity combat?
24 afterwards.	A. No. I never needed to.
Page 179	Page 181
1 BY MR. WELLS:	1 Q. Were the enemy forces that the U.S.
2 Q. In the conversation with Mr. Hathaway	2 military facing in Vietnam well trained?
3 he is currently in the Marine Corps. Is that	3 MR. BRADY: Objection. Calls for speculation.
4 correct?	4 THE WITNESS: Not to my knowledge. No.
5 A. Yes, sir.	5 BY MR. WELLS:
6 Q. And his concern is that the folks being	6 Q. Were they well armed?
7 selected as gunners now are there is an over	7 MR. BRADY: Objection. Calls for speculation.
8 representation of snipers?	8 Vague.
9 A. No. The over-representation of snipers	9 THE WITNESS: Not equal to us.
10 desiring slower, more accurate shots. And his	10 BY MR. WELLS:
11 concern was they misunderstand the enemy behavior	11 Q. Are you familiar with the Tet offensive?
12 of not standing out there waiting to get shot.	12 A. Iam.
13 Q. Who makes the selection of Marine	13 Q. What is the Tet offensive?
14 gunners?	14 A. 1968, offensive Israeli masked personnel
15 A. Commissioned officers that are onboard,	15 for the last ditch effort to push United forces
16 and they select from applicants that are submitted	16 out. They caught us off guard that we were not
17 to them.	17 prepared for.
18 Q. And those same commissioned officers,	17 prepared for. 18 That was a localized massing of
19 they are focused on concepts like combatting peer	19 capabilities for a very short duration that was
20 threats?	20 finally beat back.
	20 Infaily beat back. 21 Q. Was that low-intensity combat?
21 A Thouard	VI VV AS HIACIOW-IIIIEUSILV COMDAL/
21 A. They are.	-
22 Q. What is low-intensity combat?	A. Not to the person on front line, but,
5	-

	Page 182		Page 184
1 0	2. So the Tet offensive was low-intensity	1	Q. And when did that replacement take
	bat for the United States as a whole?		place?
	MR. BRADY: Objection. Misstates testimony.	3	-
4 Vagi			approximately within a year or two. So 1983 or
-	MR. WELLS:		'84. Even if they would authorize a replacement,
	A. History would perceive that to be		it could take up to two to five years depending how
	intensity conflict.		fast they could field them for a full change to
	2. The fall of Saigon, did the U.S.		happen.
	ary in Vietnam outnumber our opponents at the	9	So when you read some history
	t of contact during the fall of Saigon in 1975?		studies of M14 authorized in 1957, it may not have
-	A. Not to my knowledge. We were in a full		been finished fielding until 1963. And it got
	grade at that point. And I think we were		cancelled in the fielding in the process.
	nishing in size and capability by the hour.	12	So it takes time to issue the
	2. Was that the fall of Saigon		
	intensity combat?		weapons, train to those weapons, train the armors,
	•		the maintainers, and then the individual shooters,
	A. It was.		how to use them before we relinquished the old one. Q_{1} . You received your M16 A2 as a
	2. All right. You state in your expert	17	Q. You received your M16-A2 as a
-	rt that against a peer threat, which all U.S.		replacement for the M16-A1 at some point prior to
	es prepare for every day, fully automatic fire		1989, correct?
	tical. It is rehearsed repeatedly.	20	6
21	That is your opinion?	21	Q. And that M16-A2 had burst fire
	A. It is my opinion.		capability, but not full automatic fire capability;
	2. And I think you discussed the word		is that correct?
24 the p	hrase "peer threat," is something that is a	24	A. Correct.
1	Page 183	1	Page 18:
	e recent term.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. And you were trained on that M16-A2 to
2	When you joined the Marine Corps		potentially contest Russia at that time, in the
	ng the 1980s from so 1982 to 1989, did the		U.S.S.R?
	ed States face a peer threat at any point	4	
	ng that time period?	5	Q. And your training during the 1980s, did
	AR. BRADY: Objection. Misstates testimony.	l n	
/ Argi			you rehearse repeatedly to prepare for the
	imentative. Vague.	7	you rehearse repeatedly to prepare for the potential of conflict with the U.S.S.R?
8 Т	THE WITNESS: I don't recall any. Grenada,	7 8	you rehearse repeatedly to prepare for the potential of conflict with the U.S.S.R? MR. BRADY: Objection. Vague.
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Page 186	Page 188
1 Twentynine Palms to help adjust ourselves from high	
2 intensity to low intensity. Try and not create	2 BY MR. WELLS:
3 more damage than we were doing.	3 Q. Okay. You mentioned that the Marine
4 So we did switch behaviors. We	4 Corps transitioned to M27. What is an M27?
5 had trained on one level of warfare, and that	5 A. It is a rifle with select fire
6 didn't manifest, and then we had to train the force	6 capability. It looks very much like the M16. It
7 while fighting for a different level of warfare.	7 has an adjustable buttstock with free-floating
8 And I helped create those	8 handrail. That free-floating handrail, it
9 training programs at Twentynine Palms.	9 increases accuracy.
10 Q. And what were those training programs,	10 It has a metallurgy that lasts
	11 30 thousand rounds instead of the 5,000 rounds of
11 specifically, again?	
12 A. We called them lane training. Each lane	12 the M4. At the time it had enhanced accuracy, but
13 had a specific capability, but one lane would be	13 it has been shot out now. They had them too long.
14 how to identify IDs and defeat them. Another lane	14 It had fire of semi safe,
15 would be how to render safe foreign weapons in	15 semi and auto. It is a billet role that that
16 order to get them out of the battlefield.	16 rifle, initially, would replace the M249 light
17 We would have a lane on you	17 machine gun. Now it is in the hands of every
18 know, response to contact, both near and far	18 rifleman in the Marine Corps.
19 ambushes. That changed and emerged into one	19 Q. What does an automatic rifleman carry in
20 response. Just ambushed. So our ambushes, we used	
21 to train people to assault towards the objective	21 A. The M24.
22 and we ended up getting too many casualties using	22 Q. So
23 lasers.	A. So does the rifleman, the team leader,
24 So we eliminated that behavior	24 grenadier.
Page 187	Page 189
1 that was in our manuals, and we just wanted to take	1 Q. What caliber is an M27?
2 cover, and figure out a way out of kill zones with	2 A. 5.56.
3 high-intensity fires. Sensitive site exploitation.	3 Q. Is that the same caliber as the M4 and
4. I have to poth an and day of such developed in these time.	
4 How to gather evidence was developed in those time	4 the M16 before it?
4 How to gather evidence was developed in those time 5 frames.	4 the M16 before it? 5 A. Yes, sir.
5 frames.6 Q. So is it fair to say that based on the	5 A. Yes, sir.6 Q. Is it the same caliber that you can get
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 5 frames. 6 Q. So is it fair to say that based on the 7 differences in the type of combat that the U.S. 8 military was facing in Iraq and Afghanistan, 9 changes to tactics and doctrine were instituted? 	 5 A. Yes, sir. 6 Q. Is it the same caliber that you can get 7 in a semi-automatic only AR-15 in civilian setting? 8 MR. BRADY: Objection. Incomplete 9 hypothetical. Vague.
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	Page 190		Page 192
1	AR-15's are manufactured frequently to be able to	1	A. That is correct.
2	handle the pressure of NATO caliber bullets?	2	Q. And it says in "Footnote 9 see Exhibit 4
3	MR. BRADY: Objection. Incomplete	3	HKM27 IAR Product Sheet, September 2012, page 3."
4	hypothetical. Calls for speculation.	4	Do you see that?
5	THE WITNESS: Although I haven't pulled every	5	A. I do.
6	rifle ever being made, I would say, yes, the	6	Q. What is that document?
7	predominance of them would handle NATO specs.	7	A. That document is a theoretical number
8	BY MR. WELLS:	8	about what could be achieved if you actually had a
9	Q. I know you don't know what the acronym	9	magazine that would hold 700 to 900 rounds. It is
10	"SAAMI" means, but generally speaking, what is	10	giving you precisely the timing of the cycle of
11	SAAMI?	11	operation from firing one bullet to completion of
12	A. I think it is "Small Arms Ammunition"	12	that cycle of operation where the bullet is fired.
13	I don't know the M and the I. I don't know if that	13	The bolt is unlocked. The empty casing is
14	is maintenance or manufacturer. But it kind of	14	extracted and then ejected. The hammer is cocked.
15	guided them towards do this at least to make that	15	The bolt goes forward and strips a new round off
16	system safe.	16	the magazine and loads it, and the bolt locks
17	Q. What is SAAMI, an organization? Is it a	17	again.
18	company?	18	That cycle of operation the
19	A. I don't recall if that is an	19	scientific timing of that cycle of operation is the
20	organization or just a title of a document to	20	way they measure it. If you are able to load
21	control design.	21	enough magazines or actually load those magazines
22	Q. Do you know whether the U.S. Marine		extremely quickly, you could get between 700 and
23	Corps decided to adopt the M27 as the primary		900 rounds a minute.
24	weapon for Marine riflemen?	24	Q. So my question is really just what is
	Page 191		Page 193
1	A. The effort started in 1999 and was	1	the document, this HKM27 AR spreadsheet?
2	finally adopted in 2011.	2	A. The HK produced that marketing statement
3	Q. So the adoption took place in 2011 after	3	to the force when these were first being filled,
4	you left the Marine Corps. Is that correct?	4	and this is what I happened to have in my folder to
5	A. That is correct. It was being tested by		pull from. Today they will have a manual on this.
6	1st Battalion, 3rd Marine Battalion from 2009	6	I don't have that. So when I was referring to
7	through 2011. I was in the Marine Corps when it	7	this, this was the original release of the product
	was sent out for Afghanistan deployment and end		sheet that came out when the fielding was underway.
	user EVALS. That became a positive report which	9	Q. And it is a specific citation to page 3.
	led to the Commandant General James to order the	10	So is this a multipage document?
11	replacement as an automatic rifle only for the	11	A. Yes.
	first several years. And then General Robert	12	Q. So I'm going to direct your attention to
12			
	-	13	
13	Neller ordered it against the entire infantry,		what has been marked as Exhibit 4 in your exhibit
13 14	Neller ordered it against the entire infantry, probably about 2015.	14	what has been marked as Exhibit 4 in your exhibit in your expert report.
13 14 15	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9	14 15	what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was
13 14 15 16	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as	14 15	what has been marked as Exhibit 4 in your exhibit in your expert report.
13 14 15 16 17	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as Deposition Exhibit Number 1. And in particular,	14 15 16	 what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was cited in Footnote 9 that we were just discussing? A. Yes.
13 14 15 16 17 18	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as Deposition Exhibit Number 1. And in particular, Footnote 9 and I will show you Footnote 9 is	14 15 16 17 18	 what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was cited in Footnote 9 that we were just discussing? A. Yes. Q. And it is a one-page document. Is that
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13 14 15 16 17 18 19	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as Deposition Exhibit Number 1. And in particular, Footnote 9 and I will show you Footnote 9 is referencing the U.S. Marine Corps M27. Do you see that?	14 15 16 17 18 19 20	 what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was cited in Footnote 9 that we were just discussing? A. Yes. Q. And it is a one-page document. Is that right? A. I thought it was more. It must be one
 13 14 15 16 17 18 19 20 21 	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as Deposition Exhibit Number 1. And in particular, Footnote 9 and I will show you Footnote 9 is referencing the U.S. Marine Corps M27. Do you see that? A. I do.	14 15 16 17 18 19 20 21	 what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was cited in Footnote 9 that we were just discussing? A. Yes. Q. And it is a one-page document. Is that right? A. I thought it was more. It must be one page if there is no follow-up.
 13 14 15 16 17 18 19 20 21 22 	Neller ordered it against the entire infantry, probably about 2015. Q. I'm directing your attention to Page 9 of your expert report, which has been marked as Deposition Exhibit Number 1. And in particular, Footnote 9 and I will show you Footnote 9 is referencing the U.S. Marine Corps M27. Do you see that?	14 15 16 17 18 19 20 21 22	 what has been marked as Exhibit 4 in your exhibit in your expert report. Is this the document that was cited in Footnote 9 that we were just discussing? A. Yes. Q. And it is a one-page document. Is that right? A. I thought it was more. It must be one

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Page 194	Page 196
1 photos up front, and then it got into these	1 made here on the procurement decisions by the
2 details. This looks like a partial of the handout.	2 Marine Corps.
3 Q. Who decided to just provide this single	3 Q. Is it fair to say that the large picture
4 page here?	4 of the M27, although it has some differences from
5 A. Probably me. I don't know what I was	5 what was ultimately acquired, that is the M27 that
6 referencing and why.	6 you were referring to that the Marine Corps
7 Q. Let me show you something. I'd like to	7 ultimately adopted?
8 mark this as Deposition Exhibit 7. Bates-labeled	8 A. That is correct.
9 OAG008507 through OAG008509?	9 Q. And you mentioned the images on the
10 (Deposition Exhibit 7 was marked	10 bottom left?
11 for identification.)	11 A. Bottom to the near left I think
12 BY MR. EBY:	12 those are all different barrels. That is what they
	13 appear to be. There is a short barrel, medium14 barrel. 14-inch barrel. Another 14-inch barrel.
14 automatic rifle 5.56 millimeter by 45, and it is a	
15 three-page document. Do you recognize this16 document?	15 Q. Okay. So at the bottom left we are
17 A. That looks more like the flier I was	16 looking at three images of three different rifles.
	17 Is that fair to say?18 A. Yes. You see three different barrel
18 referring to when we were going to that one-page	
19 reference.	19 lengths. We did not buy the top two.
20 Q. And so this is a three-page document,	20 Q. And we are at OAG 008508. The bottom
21 correct?	21 left, do you see where it says, "The MR556-A1 is a
22 A. Right.	22 semi-automatic variant of the HK416 well-suited as
23 Q. And just looking at page 1, shows a	23 a law enforcement patrol carbine. The highly
24 soldier or Marine firing a weapon that is the cover	24 accurate 5.56-millimeter MR557-A1 is commercially
Page 195	Page 197
1 page. Page 2, you would agree has more information	
2 about the M27 infantry automatic rifle; is that	2 A. I do.
3 right?	3 Q. So is it fair to say that this
4 A. It does. It shows more than what we	4 particular rifle we are looking at the bottom left.
5 purchased.	5 The HKMR556-A1 is a civilian version of the M27.
6 Q. You said "what we purchased." Who is	6 MR. BRADY: Objection. Vague. Speculation.
7 "we"?	7 THE WITNESS: It is a replica because it is
8 A. The Marine Corps. When you see two	8 not complete with auto. So it would not meet those
9 different barrels kind of the middle left. We	9 high-end capabilities that are critical for
10 didn't buy all those. They have options. We	10 survival.
11 picked one. This is a flier. They offered us	11 BY MR. WELLS:
12 options to choose from.	12 Q. So the difference between the rifle in
13 Q. Yes, but so this flier offered the	13 the bottom left corner, the HKMR556-A1 compared to
14 Marine Corps options to choose from?	14 the M27 is the absence of an automatic setting?
15 A. Not this flier. This indicates what HK	15 MR. BRADY: Objection. Vague. Incomplete
16 had available. From within this, we made choices	16 hypothetical.
17 on some of these things barrel lengths	17 BY MR. WELLS:
18 specifically, because we picked an 18-inch barrel,	18 Q. What was your answer?
19 which I think has been moved to a 16-inch barrel	19 A. Yes.
20 now.	20 Q. Did the reference to this semi-automatic
21 So there were choices available	21 rifle have anything to do with why page 2 was
22 whether or not we wanted bi-pods and the front	22 excluded from this exhibit attached to your report?
23 handguard or that sling or some other sling.	A. You know, I think my report was only
24 So there was still choices to be	24 referring to rate of fire. I needed that other

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	Page 198		Page 200
1	page for rate of fire. I didn't need all this to	1	A. I do.
2	refer to.	2	Q. And how did you select the quotes that
3	Q. And I think you mentioned is the Army	3	follow after that?
4	undergoing transition of infantry?	4	A. Searching through there to find out the
5	A. I was told by Gunner Hathaway that the	5	outcomes of those studies and the psychological
6	Army authorizes the product improvement program to	6	studies and accuracy studies.
	remove the three-round limiter and go back to a	7	So I was just looking for
	full auto on all future M4s. Taking the existing	8	corroborating statements on the importance of
	M4s and making them into M41s. That is my only		automatic fires, both in accuracy on the objective
	source. I didn't follow up with it.		area and psychological effects to the recipient of
11	Q. So do you have any familiarity with the		those fires.
	XM7 rifle?	12	Q. And would you say these are the best
13	A. I've never touched it. I've talked to		studies you've identified?
	Marines and one general officer who has. They see	14	MR. BRADY: Objection. Vague.
	it as impressively accurate, just overly heavy.	15	THE WITNESS: These are really the only
	They are going to be concerned with portability,		studies that I know of. Studies in the military
	maneuverability, and they are running some end-user		are multi-million dollars. The only other
	trials right now to see if that is going to be a		experiment that I know of was a Marine Corps
			•
	hindrance in confined space, jungles where length		war-fighting laboratory study in 2009 that measured
	and weight matter.		the M27 against the M249 for I'll say the word
21	-		"effectiveness," and they had to explain what that
	Spear?		meant. What the rate of fire is. Number of hits.
23	A. I've seen it. I'm not familiar with it.		Number of near misses. Time for engagements. Tim
24	Q. Let me direct your attention well,	24	between the weapon running dry and getting back
	Page 199		Page 201
	let me ask you this. Did you assert in your expert		into the fight. All these were metrics, day and
	report that the Marine Corps's transition to the	2	night. And the M27 surpassed M16-A4 and the M249.
	M27, which has full automatic capability, is it a	3	I've seen no studies
	recognition of the utility of the full automatic		because they cost multi-millions of dollars to
5	fire capability? Do you recall that?		build to refute these, and they are still being
6	A. Um-hum. I agree.		quoted, a Dr. Axe. He has a Ph.D that was
7	Q. And I think at various points in your	7	working for the deputy commandant for capability
	report, you discuss different studies that have	8	development and was quoting these studies in 2009
8	been done about the effectiveness of full automatic		development and was quoting these studies in 2009 to ensure near misses were counted in that study.
8 9			
8 9 10	been done about the effectiveness of full automatic	9 10	to ensure near misses were counted in that study.
8 9 10 11	been done about the effectiveness of full automatic fire? Do you recall that?	9 10 11	to ensure near misses were counted in that study. So they are still valid and
8 9 10 11 12	been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague.	9 10 11	to ensure near misses were counted in that study. So they are still valid and being used across the services.
8 9 10 11 12 13	been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct.	9 10 11 12 13	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS:
8 9 10 11 12 13 14	 been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct. BY MR. WELLS: Q. All right. I'm showing you what has 	9 10 11 12 13 14	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS: Q. And to be clear, we are talking about the studies in Footnotes 11 through 17 of your
8 9 10 11 12 13 14 15	 been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct. BY MR. WELLS: Q. All right. I'm showing you what has previously been marked as Deposition 2, which is a 	9 10 11 12 13 14 15	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS: Q. And to be clear, we are talking about the studies in Footnotes 11 through 17 of your rebuttal expert report. And I think as you
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8 9 10 11 12 13 14 15 16 17 18 19 20	 been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct. BY MR. WELLS: Q. All right. I'm showing you what has previously been marked as Deposition 2, which is a portion of your rebuttal report. And I'm directing your attention to the last few sentences before the italic quotes where it says specifically, "Those studies have indicated that physical the physical and psychological importance of automatic 	 9 10 11 12 13 14 15 16 17 18 19 20 	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS: Q. And to be clear, we are talking about the studies in Footnotes 11 through 17 of your rebuttal expert report. And I think as you indicated, the most recent of those studies is from 1966. Is that right? A. Correct. I think I listed in the Marine Corps labs external report, or I intended to or maybe it didn't make the final cut, but it used all
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct. BY MR. WELLS: Q. All right. I'm showing you what has previously been marked as Deposition 2, which is a portion of your rebuttal report. And I'm directing your attention to the last few sentences before the italic quotes where it says specifically, "Those studies have indicated that physical the physical and psychological importance of automatic fires as they relate to the suppression of enemy positions during high-intensity combat." The 	 9 10 11 12 13 14 15 16 17 18 19 20 21 22 	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS: Q. And to be clear, we are talking about the studies in Footnotes 11 through 17 of your rebuttal expert report. And I think as you indicated, the most recent of those studies is from 1966. Is that right? A. Correct. I think I listed in the Marine Corps labs external report, or I intended to or maybe it didn't make the final cut, but it used all these documents anyway to refer the value of psychological effects and near misses.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 been done about the effectiveness of full automatic fire? Do you recall that? MR. BRADY: Objection. Vague. THE WITNESS: That is correct. BY MR. WELLS: Q. All right. I'm showing you what has previously been marked as Deposition 2, which is a portion of your rebuttal report. And I'm directing your attention to the last few sentences before the italic quotes where it says specifically, "Those studies have indicated that physical the physical and psychological importance of automatic fires as they relate to the suppression of enemy 	 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 	to ensure near misses were counted in that study. So they are still valid and being used across the services. BY MR. WELLS: Q. And to be clear, we are talking about the studies in Footnotes 11 through 17 of your rebuttal expert report. And I think as you indicated, the most recent of those studies is from 1966. Is that right? A. Correct. I think I listed in the Marine Corps labs external report, or I intended to or maybe it didn't make the final cut, but it used all these documents anyway to refer the value of

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	Page 202		Page 204
1	cited actually in the report. Is that right?	1	testing." What does "this" refer to?
2	A. That is correct, and nothing to date to	2	A. Good question. Let me look at this. I
3	refute this.	3	think "this" is the automatic fire, because it
4	Q. Obviously any report written before		leads into this research office reports.
5	1966, would not be able to account for conflicts	5	Q. And the testing that is referenced is
6	subsequent to 1966. Is that fair to say?	6	identified in Footnote 8. Would you agree with
7	MR. BRADY: Objection. Argumentative.		that?
8	Incomplete hypothetical. Calls for speculation.	8	A. I would agree. One of several.
9	MR. WELLS: Let's just keep it to form, Sean.	9	Q. Well, the footnote identifies the test
10	You can answer if you understand.	10	from 1952; is that right?
11	THE WITNESS: I understand. I'm processing	11	A. That is correct.
12	the question. These were limited to studies prior	12	Q. Are there any other tests that you are
13	to 1966, which, by the way, was the last time we	13	referring to when you said this has been confirmed
14	fought a high-intensity conflict.		by testing?
15	BY MR. WELLS:	15	A. Just this one there. It is corroborated
16	Q. In 1966?	16	by the special-purpose individual weapon test.
17	A. Prior to 1966.	17	That is SPIW. The Project SALVO reports on the
18	Q. Understood. All right.	18	value of automatic fire.
19	I'm showing you, again, what I	19	Q. Where are those said?
20	can represent to you has been marked as Deposition	20	A. They are after this. You alluded to
21	Exhibit 1. This is a portion of your initial	21	them in Section 11 through 17 earlier.
22	expert report, in particular, page 6.	22	Q. What was the Project SALVO report?
23	Directing your attention to the	23	A. I don't recall. 1960 or '63 maybe.
24	paragraph that begins "Against a peer threat."	24	Q. Were any of those reports written after
	Page 203		Page 205
1	Going to the last sentence or the last two	1	1967?
2	sentences, you wrote, "The U.S. Army will issue the	2	A. No. Maybe by a year, if at all.
3	XM7 rifle with select fire settings of safe, semi-	3	Q. All right. Directing your attention to
4	and fully semi-automatic to those frontline units	4	this paragraph here that is quoting from the 1952
5	that will not receive the M4 PIP product	5	operational requirements foreign and infantry
	improvement program. These changes are a		hand-weapon study, the italicized writing says,
	recognition of the value of fully and automatic		"Recent ORO investigations in Korea have shed som
	fire in preparation for future peer-level		light on this subject by indicating,
	conflicts." Do you see that?		quantitatively, the comparative importance of aimed
10	A. I do.		and unaimed fire as related to offensive and
11	Q. What is the basis for your statement		defensive operations. Generally, aimed fire plays
	about what the Army is doing with respect to the		a more important part in defense than unaimed or
13	XM7 rifle?		volume fire, whereas, offensive, the reverse is
14	A. General Nathan Lord, the general retired		true."
	this year and made a similar statement to me about	15	Do you agree with that
	the recognition that our efforts at World War II		statement?
	are much more similar to future potential fight	17	A. I do agree with it.
18	against China, Russia, Iran or North Korea.	18	Q. How is volume fire measured?
	Therefore, modifications to systems were being made		A. The behavior of the enemy determines if
19			your volume is sufficient.
19 20	in lieu of that future enemy. Pacing Threat is		
19 20 21	in lieu of that future enemy. Pacing Threat is what joint chiefs call it. Most likely "threat" is	21	If the enemy is still up
19 20 21 22	in lieu of that future enemy. Pacing Threat is what joint chiefs call it. Most likely "threat" is what Congress calls it.	21 22	If the enemy is still up shooting, you are not shooting enough. Or you
19 20 21 22 23	in lieu of that future enemy. Pacing Threat is what joint chiefs call it. Most likely "threat" is	21 22 23	If the enemy is still up

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	Page 206		Page 208
1	you have a sufficient, accurate amount of	1	Do you recall offering that opinion?
	suppression.	2	A. I do. Particularly explicitly applied
3	Q. Do you agree that unaimed fire is	3	to semi-autos only.
4		4	Q. What do you mean?
5	A. Absolutely.	5	A. I mean none of them had full auto
6	MR. BRADY: Objection. Vague.	6	capability that would be used in a military force
	BY MR. WELLS:	7	
8	Q. Did you ever train Marines to use	8	they are not remotely qualified to be a military
9	unaimed fire?		service weapon.
10	A. I think let's clarify. Unaimed at a	10	Q. What sources were you relying upon that
11	human or unaimed at a position? So it is still	11	were, quote, "banned by Illinois"?
	aimed fire. It is not just "stick my rifle over my	12	A. State the question again, please.
	head and pull the trigger." It is still aimed at a	13	Q. What sources did you look to to
	targeted area. There just isn't a visible movement		determine what weapons are, quote, "banned by
	there to shoot at.		Illinois"?
16		16	A. The law signed by Governor Pritzker,
	and it is firing at an area specific to pin down		with the list of weapons on it, I saw no weapons
	somebody to prevent them from shooting.		employed by a military service around the world,
19	Q. And did you ever train Marines to use		minus the M38 enhanced battle rifle, the 50-caliber
	unaimed fire at all?		special operations rifles. There were a couple
$\frac{20}{21}$	A. Not unaimed. If I were to define		sniper systems in there that would be employed.
	unaimed, it would be I'm not even looking at	22	Q. Okay. And you are specifically
	sighting systems. I'm just pointing at a direction		referring to, like, for instance, Barrett M107-A1?
	and pulling the trigger. That is just a waste of	24	MR. BRADY: Objection. Misstates the
	Page 207		Page 209
1	ammo ammunition.	1	testimony.
2			
	Q. Do you recall when we previously looked	2	BY MR. WELLS:
3	Q. Do you recall when we previously looked or discussed the statement that the rifleman	2 3	
	or discussed the statement that the rifleman		Q. Is that right?
4	or discussed the statement that the rifleman provides accurate lethal direct fire for point	3	Q. Is that right?A. Yes. That is exactly it.
4	or discussed the statement that the rifleman	3 4 5	Q. Is that right?A. Yes. That is exactly it.Q. The Barrett M107, would that be
4 5	or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion?	3 4 5 6	Q. Is that right?A. Yes. That is exactly it.
4 5 6 7	or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes. Q. How does this quote, which discusses	3 4 5 6	Q. Is that right?A. Yes. That is exactly it.Q. The Barrett M107, would that be sufficient for military needs against a peer threat?
4 5 6 7 8	or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes.	3 4 5 6 7	Q. Is that right?A. Yes. That is exactly it.Q. The Barrett M107, would that be sufficient for military needs against a peer
4 5 6 7 8	or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes. Q. How does this quote, which discusses unaimed fire square with the rifleman providing accurate lethal direct fire from point targets?	3 4 5 6 7 8 9	 Q. Is that right? A. Yes. That is exactly it. Q. The Barrett M107, would that be sufficient for military needs against a peer threat? MR. BRADY: Objection. Vague.
4 5 6 7 8 9	or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes. Q. How does this quote, which discusses unaimed fire square with the rifleman providing accurate lethal direct fire from point targets?	3 4 5 6 7 8 9 10	 Q. Is that right? A. Yes. That is exactly it. Q. The Barrett M107, would that be sufficient for military needs against a peer threat? MR. BRADY: Objection. Vague. THE WITNESS: Potentially. Yes, it would be.
4 5 7 8 9 10 11	 or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes. Q. How does this quote, which discusses unaimed fire square with the rifleman providing accurate lethal direct fire from point targets? MR. BRADY: Objection. Vague. Compound. 	3 4 5 6 7 8 9 10 11	 Q. Is that right? A. Yes. That is exactly it. Q. The Barrett M107, would that be sufficient for military needs against a peer threat? MR. BRADY: Objection. Vague. THE WITNESS: Potentially. Yes, it would be. I think we moved beyond that to semi-automatic
4 5 6 7 8 9 10 11 12	 or discussed the statement that the rifleman provides accurate lethal direct fire for point targets. Do you recall that discussion? A. I remember that, yes. Q. How does this quote, which discusses unaimed fire square with the rifleman providing accurate lethal direct fire from point targets? MR. BRADY: Objection. Vague. Compound. THE WITNESS: In the report it will talk about 	3 4 5 6 7 8 9 10 11 12	 Q. Is that right? A. Yes. That is exactly it. Q. The Barrett M107, would that be sufficient for military needs against a peer threat? MR. BRADY: Objection. Vague. THE WITNESS: Potentially. Yes, it would be. I think we moved beyond that to semi-automatic box-fed rifles now instead of bolt actions. We have no capacity, but if that was what I was left
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1 in on to help compare the list of banned weapons in	1 replaced by the M855-A1. You discussed that in
2 Illinois against what we know of around the world	2 your report. Is that right?
3 militaries.	3 A. M855-A1 replaced the M855, yes. In both
4 I'm not a 143-country expert on	4 services now. Initially it was only in the Army.
5 it. Weapons being employed, but on the modern	5 Now it is the Army and Marine Corps.
6 battlefield, our peers in Europe and many Asian	6 Q. Do you have an understanding as to why
7 countries, they have all gone and maintain the	7 that transition took place?
8 ability of full auto.	8 A. I do. Those anecdotal complaints, even
9 Q. What sources did you consult in forming	9 if they weren't valid, were emotionally, important
10 that opinion?	10 enough to look into it.
11 A. Google.	11 So Army research and development
12 Q. Google?	12 command conducted evaluations on the bullets ar
13 A. Yes, sir.	13 I think they were going to make the replacement.
14 Q. Any other sources?	14 Even they were going to change the color. They
15 A. I didn't. That is an area that I ask	15 were going to do something to make you feel better
16 Mike Musselman to weigh in on. If he recognizes	16 about what you were taking into war.
17 all of these are just years of experience and	17But the fact is the reports that
18 spending time in bilateral training to see what	18 came out on the bullet did show it to be inferior
19 they are using. The fastest source to scan across	19 to M855-A1 through barriers and into the human
20 140 countries is Google.	20 body. It moved the remember I'd spoke earlier
21 Q. Do you know what sources Mr. Musselman	21 about M16-A4, M855, failed to behave correctly
22 consulted in doing that research?	22 after 175 meters, when it got under 2500 feet per
23 A. I do not.	23 second.
24 Q. What documents from foreign militaries	24 The M855-A1 does not have that
Page 211	Page 21
1 did you personally review in forming this opinion?	1 limitation. It works up to about 435 meters, where
2 A. None.	2 the ability to find the target the accuracy of
3 Q. Do you know what Mr. Musselman reviewed?	3 the rifle, the accuracy of the ammunition, kind of
4 A. I do not.	4 reached the limit on ability to hit the target.
5 Q. Do you speak any languages other than	5 Q. All right. So let me show you your
6 English?	6 expert report again in here. So I'm showing you
7 A. I barely speak English.	7 what has been previously marked as Deposition
8 Q. So did you review any publications from	8 Exhibit 1, which is your initial expert report, and
9 militaries around the world that were in other	9 the paragraph you now see on the screen. Is this
10 languages?	10 what you were describing just now?
11 MR. BRADY: Objection. Asked and answered.	11 A. No. This is what the Marine Corps
12 THE WITNESS: The only publication I reviewed	12 effort was doing in those early 2000s that we were
13 was the Google search or semi-automatic weapons	13 having the same complaints, but we couldn't find
14 being employed by, and the answer was no.	14 evidence to support it. That the M855 was
15 BY MR. WELLS:	15 insufficient.
16 Q. Do you know whether the Costa Rican	16 The one I was just explaining
17 Military uses semi-automatic-only rifles?	17 was an Army effort following this. They had the
18 MR. BRADY: Objection. Asked and answered.	18 same problems. People complained that I shot the
19 THE WITNESS: For snipers, yes.	19 guy, he didn't fall down. I think my bullet is
	20 bad.
20 BY MR. WELLS:	21 So that forced the Army's hand
20 BY MR. WELLS:21 Q. Do you know if Costa Rica has military?	21 So that foreca the filling s hand
	22 to search for a different bullet. The Marine Corps
21 Q. Do you know if Costa Rica has military?	-

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1 technology bullet, but that was overruled by	1 between Marine Corps systems command and Army
2 Congress. We didn't want two services with two	2 development command as they discussed the problem
3 different bullets.	3 identified a path forward, and there were two
4 Q. Okay. And so you state here in response	4 different plans.
5 to constant complaints by infantrymen from 2003 to	5 The Marine Corps had one bullet.
6 2005, that the 556 millimeter ammunition, that the	6 The Army had a different bullet, M855-A1, and they
7 M16 uses was inadequate in terms of penetration	7 sorted themselves out and made it M855-A1.
8 lethality, in terms of performance. The U.S. Army	8 Q. What does penetration mean in the
9 commenced studies to consider replacing the M855	9 sentence?
10 green tip 62 grain projectile. The findings of	10 A. It usually means depth. And it can be
11 those studies conducted between 2005 to 2010 were	11 depth through equipment.
12 that the M855 bullet underperformed in	12 Most conversations are around
13 incapacitating enemy combatants and should be	13 lethality is we need at least 12 inches of
14 replaced. And it was, in fact, replaced as the	14 penetration and this is not my lingo. These are
•	15 things we are told over and over again that are
15 U.S. Army explained in a report.16 Is that the transition you were	16 around a general statement.
17 describing earlier between the M855 and the	
17 describing earlier between the W855 and the 18 MS55-A1?	17 I need 12 inches of penetration,18 meaning if it is coming through my shoulder and it
	19 is coming through the equipment I'm wearing, it
	20 needs to get into the center of the body.
21 synopsis of what happened. There were a couple	21 Well, if it could penetrate 12
22 interim bullets that came in, bought off the shelf,	22 inches of ballistic gelatin, it is theoretical that
23 sent over to get people to feel comfortable about24 their ammunition.	23 it gets through all those obstacles in the body.
	24 Lethality is a wild animal
Page 215	Page 217
1 BY MR. WELLS:	1 nobody can clearly define, and it has
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55 (Pages 214 - 217)

	Page 218		Page 220
	BY MR. WELLS:	1	A. The environment we are fighting in,
2			typically. So urban areas, forest areas. Things
3	I I I I I I I I I I		that you might naturally take cover behind,
	portability. The ability to maneuver in and out of		vehicles, and we wanted the Army was saying they
	firing position. Overall weight, balance, ease at		wanted to be able to penetrate those barriers and
6	aim, ease at managing recoil.		still have a bullet that is performing when it hits
7	Q. What other factors?	7	the target behind it.
8	A. It is a portable weapon. It is	8	Q. When you say "performing, after it
9	5	9	penetrates," what does that mean?
10	out-of-fighting positions where I'm trying to take	10	A. It means it doesn't deviate in
11	6 6		direction. It don't disintegrate itself getting
12	Q. Any other factors?	12	through the barrier, and it still has the ability
13	A. Ease of managing the recoil.	13	to get inside the lethal area of the human body,
14	Q. Any others?	14	disrupt enough organs to decompress or kill the
15	A. Probably, but not off the top of my	15	target area.
16	head. Like, ease of reload. That is another	16	Q. And in that same row of urban structures
17	important factor we could get wrong.		on the far right, in the column that is labeled
18	Q. I direct your attention to what is		"Performance measures," do you see it says, "24
19	Exhibit 3 in your rebuttal expert report, which I	19	layers of Kevlar. 3/8 inch of mild steel and
20	can show you.	20	concrete masonry unit."
21	Here is Exhibit 3, at PDF 97,	21	Do you have an understanding as
22	cover page starts at page, PDF 97. Scrolling down	22	to what that is referring to?
23	to PDF 99. Do you recognize this document?	23	A. It is also the Kevlar that the
24	A. I do. This is one of those briefs the	24	protection is worn for both us and China, and
	Page 219		Page 221
1	Army was giving with the Marine Corps war-fighting	1	Soviet Union a few other countries are wearing
2	lab in conjunction, and I was invited into the	2	them. Some Iranians are wearing them. The 3/8th
3	list.	3	mild steel, I have no idea where they got that
4	Each of these conversations,	4	determination, but I'm thinking car. Some car
5	they are developing their information and they are	5	structure, concrete masonry unit in typical
6	deciding how they are going to proceed replacing	6	structures throughout Middle East that people would
7	the M855.	7	take cover behind. We want to be able to penetrate
8	Q. And just looking at what is internally		those.
9	paginated, Slide 3, labeled "Army requirements for	9	Q. And when it says "Performance measures,"
	general purpose ammunition." On the right, do you	10	what this slide is discussing is the ability of a
	see the column that says "Performance measures"?		general purpose ammunition round fired from an M1
12	A. I do.		or M4 to penetrate 24 layers of Kevlar, 3/8th inch
13	Q. Do you see the one category "Performance		of steel or concrete masonry unit and still be
	measures" that says "Protected target/urban		lethal. Is that right?
14	structures"?	15	MR. BRADY: Objection. Compound.
	structures ?		THE WITNESS: That is correct. That is
	A. (No response.)	16	
15			probably a masonry unit that is not full of cement,
15 16	A. (No response.)	17	probably a masonry unit that is not full of cement, but they had to pick some parameter that they were
15 16 17	A. (No response.)Q. Do you see that?A. I'm searching for it. Oh, yes. I do.	17 18	
15 16 17 18 19	A. (No response.)Q. Do you see that?A. I'm searching for it. Oh, yes. I do.Q. And under the "Protected targets urban	17 18	but they had to pick some parameter that they were
15 16 17 18 19 20	 A. (No response.) Q. Do you see that? A. I'm searching for it. Oh, yes. I do. Q. And under the "Protected targets urban structures, next to the right of that, it says, 	17 18 19 20	but they had to pick some parameter that they were going to target, and they picked these.
15 16 17 18 19 20 21	A. (No response.)Q. Do you see that?A. I'm searching for it. Oh, yes. I do.Q. And under the "Protected targets urban	17 18 19 20 21	but they had to pick some parameter that they were going to target, and they picked these. I'm sure there was research that
15 16 17 18 19 20 21 22	 A. (No response.) Q. Do you see that? A. I'm searching for it. Oh, yes. I do. Q. And under the "Protected targets urban structures, next to the right of that, it says, "Body armor fabrics, body armor array of 	17 18 19 20 21 22	but they had to pick some parameter that they were going to target, and they picked these. I'm sure there was research that led them to why these and not a 15-inch tree, but

56 (Pages 218 - 221)

Page 222	Page 224
1 Q. "24 layers of Kevlar." What does that	1 probably the steel part of the helmet.
2 refer to?	2 There are a lot of factors that
3 A. Probably my flight jacket my flight	3 go into making that decision, though, when they are
4 jacket that I wore that holds my body armor is more	4 narrowing down the scope of what they are building.
5 than likely what they had to test against. And so	5 Q. So the M855 has one column in the
6 they stuck it in there to defeat our armor. And	6 middle, and there are different attributes listed;
7 that is not the first time we've done that. M855	7 cartridge length, bullet weight, tip ID, and it
8 bullet that we picked up in 1983, it was tested	8 goes down through soft target. Do you see that?
9 against the steel helmet that we wore in World War	9 A. Ido.
10 II and Vietnam. It had an inner liner of the	10 Q. Do you agree with the information listed
11 materials and outside steel.	11 in the column under M855? Do you think that is
12 The only criteria for that	12 accurate?
13 bullet measured against were the 600 yards, the	13 MR. BRADY: Objection. Vague. Compound.
14 bullet, the M855, could penetrate through both	14 THE WITNESS: I do think that is accurate as
15 walls of fiberglass and steel of the steel part of	15 far as I can tell.
16 the helmet. That is what they had available, so	16 BY MR. WELLS:
17 that is what they used.	17 Q. And this is the same M855 round that you
18 Q. So why would 24 be able to penetrate 24	18 can purchase, right?
19 layers of Kevlar be relevant as a performance	19 A. Correct.
20 measure in deciding what general purpose ammunition	20 Q. And the M855 round that would work in a
21 to be used?	21 civilian semi-automatic AR-15, would it be able to
22 A. I have no idea.	22 penetrate 3/8th inch of mild steel at 160 meters?
23 Q. Do you think it might have to do with	MR. BRADY: Objection. Calls for speculation.
24 penetrating body Army worn by enemy soldiers?	24 THE WITNESS: I don't know. I have not tested
Page 223	Page 225
1 A. Could be. I was not present for that	1 against 3/8ths inch steel at 160 meters.
2 decision-making.	2 So me when I see these, like,
3 Q. You cited this document as a basis for	3 rate of fire, like hot barrel procedures, I want to
4 your expert report; is that right?	4 go test it myself. And even then there are
5 A. That is true. But there are decisions	5 variables. Am I at sea level? Is it 72 degrees?
6 being made in this room for trade space. If I	6 Is there no humidity? Because that will affect
7 wanted 34 layers of Kevlar, I probably needed a	7 velocity.
8 bigger bullet, faster bullet.	8 You add temperature, the bullet
9 They had to pick a standard, and	9 gets faster. You add humidity, the bullet gets
10 they did. I can quote them, but I wasn't present	10 slower. You add altitude, the bullet gets faster.
11 in the room for the conversation for why they chose	11 I don't know the details that went into that, but I
12 what they did.	12 have become very cynical about reading marketing
13 Q. Directing your attention to the	13 statements like this. And hesitate to believe that
14 internally marked Slide 4 in the same document,	14 it will do that.
15 titled "Comparison of changes." What do you	15 BY MR. WELLS:
15 miles comparison of changes. What do you	
	16 Q. You said marketing statement. This is
16 understand this to be what is being described on	6
16 understand this to be what is being described on17 this slide as you understand it?	17 an Army publication that you attached to your
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 	-
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 19 THE WITNESS: Well, Territory 6 and 	17 an Army publication that you attached to your18 rebuttal statement. How is this a marketing19 statement?
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 19 THE WITNESS: Well, Territory 6 and 20 nomenclature of two different projectiles; the M855 	17 an Army publication that you attached to your18 rebuttal statement. How is this a marketing19 statement?20 A. Well, it is advertising to the service
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 19 THE WITNESS: Well, Territory 6 and 20 nomenclature of two different projectiles; the M855 21 and the M855-A1, and it looks to me that they cut 	 17 an Army publication that you attached to your 18 rebuttal statement. How is this a marketing 19 statement? 20 A. Well, it is advertising to the service 21 and to the user a maybe it is propaganda. A
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 19 THE WITNESS: Well, Territory 6 and 20 nomenclature of two different projectiles; the M855 21 and the M855-A1, and it looks to me that they cut 22 and pasted 3/8th inch model steel from M855 as a 	 17 an Army publication that you attached to your 18 rebuttal statement. How is this a marketing 19 statement? 20 A. Well, it is advertising to the service 21 and to the user a maybe it is propaganda. A 22 non-measured, non-reported, no-evidence statement
 16 understand this to be what is being described on 17 this slide as you understand it? 18 MR. BRADY: Objection. Vague. 19 THE WITNESS: Well, Territory 6 and 20 nomenclature of two different projectiles; the M855 21 and the M855-A1, and it looks to me that they cut 	 17 an Army publication that you attached to your 18 rebuttal statement. How is this a marketing 19 statement? 20 A. Well, it is advertising to the service 21 and to the user a maybe it is propaganda. A

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	Page 226		Page 228
1	the evidence of the velocity, but I have not shot	1	Q. The information that is listed in
2	at 3/8ths inch at 160 meters, and they don't give	2	velocity under the M885 3113 feet per second. Do
3	me the conditions, meaning temperature, altitude,	3	you think that is a valid number?
4	sea level, humidity. I don't know what conditions	4	A. I do. I've gotten similar speeds to
5	those were in.	5	that in my own evaluations using a chronograph.
6	Q. So, are you saying the information in	6	Those speeds change, though, on barreling, and they
7	this document is unreliable?	7	changed on temperature and humidity. I know what
8	MR. BRADY: Objection. Argumentative.	8	my altitude will be, but I don't know what the
9	THE WITNESS: I'm saying it is probably	9	temperature and humidity will do to speeds. It
10	reliable once at 160 meters in the conditions that	10	will vary. I think in a box at 20 rounds, those
11	they were in if they actually tested it. And	11	there is a standard deviation of 20-round shots.
	historically, that has not been the case. And it	12	That could be up to 50 feet per second across the
13	is expensive to do those tests, and they are not	13	20-round fire.
	always tested.	14	Q. You mentioned that you had personally
15	I'll give you an example. The	15	replicated this velocity. Do you rely on numbers
16	machine gun hot barrel procedures, 200 rounds per	16	that you can't personally replicate?
17	minute. I have a hot barrel. I need to change	17	A. I question them, and I don't swear that
	barrel.	18	they are true because I was not present for them.
19	Gunner Mike Brooks called it	19	Q. How did you personally replicate the
20	"general dynamics." He had built the machine gun	20	3113 feet-per-second velocity?
	we were using, and we asked him if we could have	21	A. Using a 16-inch barrel through a
	the test for that, and the Marine Corps and the	22	chronograph, I've got similar numbers within 50
	general dynamics told Gunner Brooks that general		feet per second of that across 20 bullets.
	dynamics did not perform that test. The Marine	24	As I figure out the velocity
	Page 227		Page 229
1	Corps made that number up.	1	equals trajectory, and that trajectory is important
2	We could never find evidence.	2	as the range increases.
3	We called capability development and integration	3	So in my own Kestral, those
4	asking for the test report, and it had never been	4	M855-A1 fire rounds came into that area. We
5	tested, ever. And it only simply got tied to	5	usually round it out down to 3100 feet per second.
6	our ammunition comes in a 200-round can. So	6	So 3075 to 3125 and, it will be in that ballpark.
7	somebody writing a publication somewhere, wrote	7	Q. Where did you how did you develop
8	their opinion that the barrel should be changed	8	that methodology?
Q	every 200 rounds.	9	A. Of testing? That is a standard behavior
7			
9 10	Q. Why did you cite this document?	10	for developing trajectory profiles in a ballistics
	Q. Why did you cite this document?A. I don't recall. I would have to go back	10 11	
10 11		11	
10 11	A. I don't recall. I would have to go back	11 12	applications in using a Kestral wind sensor and
10 11 12 13	A. I don't recall. I would have to go back and see what I was trying to refer to.	11 12	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic
10 11 12 13 14	A. I don't recall. I would have to go backand see what I was trying to refer to.Q. Did you rely upon information that you	11 12 13 14	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed.
10 11 12 13 14	A. I don't recall. I would have to go backand see what I was trying to refer to.Q. Did you rely upon information that youare cynical about and skeptical of in forming youropinions?	11 12 13 14 15	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for
10 11 12 13 14 15	A. I don't recall. I would have to go backand see what I was trying to refer to.Q. Did you rely upon information that youare cynical about and skeptical of in forming your	11 12 13 14 15	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to
10 11 12 13 14 15 16 17	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. 	11 12 13 14 15 16	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core.
 10 11 12 13 14 15 16 17 18 	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. THE WITNESS: Absolutely. I am telling you this is a legitimate document that is made in 	11 12 13 14 15 16 17 18	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core. Q. When did you perform this testing? A. I've been performing this testing for
10 11 12 13 14 15 16 17 18 19	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. THE WITNESS: Absolutely. I am telling you this is a legitimate document that is made in 	11 12 13 14 15 16 17 18 19	applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core. Q. When did you perform this testing? A. I've been performing this testing for about three years. So the most recent one,
10 11 12 13 14 15 16 17 18 19 20	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. THE WITNESS: Absolutely. I am telling you this is a legitimate document that is made in publications, and I remain cynical on who made the test and where the valid information comes from. 	11 12 13 14 15 16 17 18 19 20	 applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core. Q. When did you perform this testing? A. I've been performing this testing for about three years. So the most recent one, probably August of last year. Because I had the
 10 11 12 13 14 15 16 17 18 19 20 21 	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. THE WITNESS: Absolutely. I am telling you this is a legitimate document that is made in publications, and I remain cynical on who made the test and where the valid information comes from. So maybe it will penetrate 3/8 inches, but I don't 	11 12 13 14 15 16 17 18 19 20 21	 applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core. Q. When did you perform this testing? A. I've been performing this testing for about three years. So the most recent one, probably August of last year. Because I had the M855-A1 and the M855 at my house as Trijicon was
 10 11 12 13 14 15 16 17 18 19 20 21 22 	 A. I don't recall. I would have to go back and see what I was trying to refer to. Q. Did you rely upon information that you are cynical about and skeptical of in forming your opinions? MR. BRADY: Objection. Argumentative. Vague. THE WITNESS: Absolutely. I am telling you this is a legitimate document that is made in publications, and I remain cynical on who made the test and where the valid information comes from. 	11 12 13 14 15 16 17 18 19 20 21 22	 applications in using a Kestral wind sensor and using a what I use was a Labradar ballistic chronograph to get the speed. That behavior is typical for snipers to understand their velocity average to build out a target core. Q. When did you perform this testing? A. I've been performing this testing for about three years. So the most recent one, probably August of last year. Because I had the

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	Page 230		Page 232
1 did so, a	nd it turns out there is a difference	1	They are not very accurate
	the trajectories with M855-A1 as it gets	2	bullets. I mean we use terms like minutes of
	way from the target.	3	angle. So a minute of angle is dumbed down to be
4	So it gets more stable in		one inch of a hundred meters standard, constantly.
5 distance	, therefore, it has a custom ballistic	5	And that angle of deviation stays true out to
6 curve, w	hich would need a custom bullet	6	further distances.
7 ballistic	drop compensated reticle design.	7	We shot to 600 meters, and the
8 Q.	When you personally conducted this	8	bullets were really closer to three minutes an
9 testing, o	did anyone else help you?	9	angle, staying at 3-inch group at 100 meters, and
10 A.	Gunner Chris Jones joined me. He is a	10	18-inch groups at 600 meters, which that is not
11 retired N	farine gunner with time on his hands, and	11	sniper quality by any means. It is what we can
12 he was in	nterested because the Army posted M855	12	expect from a general purpose bullet.
13 and the l	M855-A1 ballistically matched. And they	13	Q. What civilian rifles did you use to
14 are corre	ect to a certain point.	14	conduct this testing?
15	At 300 meters, they are within	15	MR. BRADY: Objection. Vague.
16 inches of	f each other being ballistically matched.	16	THE WITNESS: I don't recall anyway. I mean I
17 Beyond	that, the M855-A1 stays a little farther.	17	as a matter of fact, Gunner Chris Jones brought
18 Doesn't	fall as fast. You start getting a	18	his own rifle made by Geissele, but I don't know
19 deviation	n of trajectory hole and ballistic drop.	19	the model. Barrel length and barrel length
20	So we tested through all of that	20	would have mattered. I think he brought in an
21 using 30	0 rounds of ammunition that we bought	21	16-inch barrel rifle, which would have met the M27
22 online th	at was available on the market and shot it	22	capability of the Marine Corps, but not the M4 or
23 through	our civilian guns to find out if these	23	the M4-A1 because they are a shorter barrel.
24 trajector	ies matched. We identified the deviation	24	Q. Did you write down the conditions under
	Page 231		Page 233
-	ing special radical design requirements	1	which you conducted this testing anywhere?
2 from Tri	-	2	A. I did.
	I'm sorry. Were you also testing	3	Q. You did?
	1 rounds? Is that right?	4	A. I did.
	Yes. Both of these.	5	Q. And where is that written up?
-	And those M855-A1 rounds, you are able	6	A. I submitted a report to Trijicon and it
-	ase online?		is probably on my hard drive somewhere. I
	Yes.		originally wrote them on the target sheets on
	And were you able to replicate the right		pencil and paper and had to transcribe them on an
	the data from the right column with respect		Excel sheet to try to capture data.
	855-A1 rounds?	11	Q. Did you have an understanding of whether
	BRADY: Objection. Vague, compound.		or not it is legal to purchase M855-A1 rounds in
	WITNESS: I didn't try to replicate		the United States?
14 column.	The entropy to the test of the test	14	MR. BRADY: Objection. Calls for a legal
15 16 mm ¹ /mm ¹ /	The only thing I was trying to		conclusion.
-	was the speed and trajectory drop.	16	THE WITNESS: It was open-market buy.
17 BY MR.			Literally looked it up on Google. They were
	What speed were you able to measure for 5. A1 that you purchased online?		selling them somewhere in Ohio, and we ordered 200 or 300.
	5-A1 that you purchased online?		
	I don't recall. I'd have to look up the	20	MR. WELLS: All right. We've been going for
	ee how far because it was M855-A1		about an hour and 20 minutes. Do you need a break? It is 2:36. Why don't we come back
	o 40 feet per second faster, per bullet on	22	It is 2:36. Why don't we come back at 2:45.
23 average. 24 trajector	But it stayed in the same general	23	(Recess.)
$\pm 2 + ualector$	у.	24	(100035.)

B 224	B 22(
Page 234 1 MR. WELLS: We are back on the record at 2:46.	Page 236 1 THE WITNESS: Yes.
2 BY MR. WELLS:	2 BY MR. WELLS:
3 Q. Mr. Eby, just remind you. You are still	3 Q. Do you agree that rifles perform
4 under oath.	4 tactical tasks in the military that pistols do not
5 Did you speak to anyone during	5 perform?
6 the break?	6 A. Yes.
7 A. I did not.	7 MR. BRADY: Objection. Vague.
8 Q. Prior to the break, we were discussing	8 BY MR. WELLS:
9 some testing that you performed on M855 rounds, and	
10 M855-A1 rounds. Do you recall that discussion?	10 that pistols cannot perform?
11 A. Yes, sir.	11 MR. BRADY: Objection. Vague.
12 Q. When you were conducting that testing,	12 THE WITNESS: Yes.
13 the rifles that you were using to conduct that	13 BY MR. WELLS:
14 testing, were they AR-15-type rifles?	14 Q. And the rifles we are discussing, when
15 MR. BRADY: Objection. Vague.	15 we are talking about military rifles that a
16 THE WITNESS: Yes.	16 rifleman would possess, we are talking about M4,
17 BY MR. WELLS:	17 M16 and M27 that we previously discussed. Is that
18 Q. And were they civilian, meaning	18 right?
19 semi-automatic only 15-type rifles?	19 MR. BRADY: Objection. Vague. Compound.
20 A. Yes.	20 THE WITNESS: Yes.
21 Q. But you don't specifically recall, as	21 BY MR. WELLS:
22 you sit here today, which make and model AR-15-typ	e22 Q. What is a tactical task?
23 rifles they were. Is that correct?	23 A. Close, destroy, seize, block, deny. So
A. That is correct, but I probably wrote it	24 these come about as key phrases and mission
Page 235	Page 237
1 down on my notes.	1 assignment directing a unit or element that belong
2 That would give me barrel	2 to this tactical it could be block this avenue
2 longth which would be important for comparing	
5 length, which would be important for compariso	n 3 or seize that building or destroy that position.
4 contrasting with other barrel lengths.	
	n 3 or seize that building or destroy that position.
 4 contrasting with other barrel lengths. 5 Q. And based on that testing using those 6 particular rifles, you were able to replicate with 	 n 3 or seize that building or destroy that position. 4 So there is actually documents
 4 contrasting with other barrel lengths. 5 Q. And based on that testing using those 6 particular rifles, you were able to replicate with 7 an M855 cartridge a velocity of 3113 feet per 	 n 3 or seize that building or destroy that position. 4 So there is actually documents 5 that guide the development of those statements of 6 tasks, which type of words to use in that 7 development of the task assignment.
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 4 contrasting with other barrel lengths. 5 Q. And based on that testing using those 6 particular rifles, you were able to replicate with 7 an M855 cartridge a velocity of 3113 feet per 8 second. Is that right? 9 A. Yes, roughly. 10 Q. And you were able to replicate a similar 11 velocity with the M855-A1 round? 12 A. Correct. 13 Q. All right. Mr. Eby, you wrote in your 14 report that pistols in the military are used for 15 same purpose they are in civilian life. You agre 16 with that statement? 17 A. Self-defense, yes. 18 Q. And the purpose that pistols for 19 which pistols are used in the military and civilia 20 life are self-defense. Is that right? 	 n 3 or seize that building or destroy that position. 4 So there is actually documents 5 that guide the development of those statements of 6 tasks, which type of words to use in that 7 development of the task assignment. 8 Q. And you wrote in your expert report that 9 no general purpose force in the U.S. Army or Marine 10 Corps has a tactical task against an enemy that 11 requires a pistol as a solution? Do you agree with 12 that? 13 A. I do. 14 Q. You described pistols as a personal 15 protection weapon. What does that mean? 16 A. The individuals assigned pistols will 17 have a different role to perform. It doesn't 18 necessarily involve attacking the enemy. A 19 colonel, for instance, his role is not to jump out 20 and start closing with the enemy. His role is to 21 coordinate all of the forces into the fight.

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because his real tools are his radios and his M4s,	1	A. I do. Reliability. That stands to be
and machine gun. He has a machine gun.	2	true.
So he would probably get a	3	Q. Why is sufficient velocity important for
pistol as a self-defense weapon of last resort	4	military firearms?
L L		A. Velocity can lead towards penetration of
		barriers. Penetration of the equipment they are
		wearing, and penetration of the human body with
		sufficient depth to create incapacitation. Pistols
		are low velocity already. A third of the speed,
-		which lead to penetration. And a low performing
_		
*		they don't necessarily expand well.
		There are bullets that are
		designed to do that. They are expensive like \$2.00
-		a bullet, but aren't the normally used bullet
*		because of the cost.
		And in the military, we have a
		dumb chunk of lead surrounded by a jacket that is
		not designed it would be what we call "plinking
- •		bullets." Something to shoot at a target, just to
		get skills, but not for shooting humans.
		Q. So you discussed velocity and
		penetration. What does expansion mean in this
		context?
		Page 241
-	1	A. Assuming a bullet will mushroom and
-	2	create more tissue damage as it is penetrating.
		Will separate into large chunks. Not just
		disintegrate into nothing to get multiple track
		wounds and increase the amount of trauma to th
		body.
		Hopefully hit something large
		and create a lot of tissue damage to incapacitate
-		the opponent.
-		Q. Do you agree that pistols lack velocity
- ·		to hit assailants that are "far away"?
		MR. BRADY: Objection. Vague.
That didn't work, but it has been in our doctrine	13	THE WITNESS: Define far away.
for 80 years.		BY MR. WELLS:
So we have to measure these	15	Q. Greater than 25 meters.
things against real world behavior and modify and	16	A. I can hit targets at a 100, but when I
		hit them at 100, with a pistol, low volume,
historically, in my time in service. I would	1 /	· · · · · · · · · · · · · · · · · · ·
historically, in my time in service, I would stumble across too many things that were written as		low-spend bullet, I don't expect incapacitation.
stumble across too many things that were written as	18	low-spend bullet, I don't expect incapacitation.
stumble across too many things that were written as "validated" that had never been tested.	18 19	
stumble across too many things that were written as"validated" that had never been tested.Q. You wrote in your expert report that	18 19 20	Q. What is the maximum range which you
stumble across too many things that were written as"validated" that had never been tested.Q. You wrote in your expert report thatpistols lack sufficient velocity to ensure bullet	18 19 20 21	Q. What is the maximum range which you would expect incapacitation from a 9-millimeter
stumble across too many things that were written as"validated" that had never been tested.Q. You wrote in your expert report that	18 19 20 21	Q. What is the maximum range which you
	somebody is about to overrun his position. This deliberate fielding of equipment kind of fell apart during well, you have to know nobody felt comfortable only being armed with a pistol. So we had to source spare rifles and issue them out, because the plan for the Marine Corps did not include rifles for the machine gunner or rifles for the colonel. So I had to find 600 spare rifles to issue out to personnel that needed them, and then assure that they were zeroed, had optics on them, slings, and that they were trained on them. And that happened upon arrival into Iraq. Q. Did you do that for Colonel Tucker? A. I did. Q. You mentioned that rifles were used to close with the enemy in a way pistols are not used. What does that mean, "close with the enemy"? A. "Get close to the enemy." Page 239 So we have a phrase, we use close with and destroy. The purpose of the infantry is to locate, close with and destroy the enemy by fire and by close combat. So that is the definition. I am going to locate him. Get close to him and destroy him. Now that is doctrine. Doctrine's best practice. It may not be what we do, which I know I'm coming across as cynical on some of the stuff we read, but it doesn't stand the test of time, like that urban entry from the top down.	Somebody is about to overrun his position. This deliberate fielding of5 Gequipment kind of fell apart during well, youhave to know nobody felt comfortable only being armed with a pistol.9So we had to source spare rifles10and issue them out, because the plan for the Marine Corps did not include rifles for the machine gunner11Corps did not include rifles for the machine gunner or rifles for the colonel.13So I had to find 600 spare14rifles to issue out to personnel that needed them, and then assure that they were zeroed, had optics16on them, slings, and that they were trained on them. And that happened upon arrival into Iraq.18Q. Did you do that for Colonel Tucker?19A. I did.20Q. You mentioned that rifles were used to close with the enemy in a way pistols are not used.22What does that mean, "close with the enemy"?23A. "Get close to the enemy."24Page 239So we have a phrase, we use1close with and destroy. The purpose of the infantry is to locate, close with and destroy the enemy by fire and by close combat.4So that is the definition. I am going to locate him. Get close to him and destroy6him. Now that is doctrine. Doctrine's best practice.7It may not be what we do, which9I know I'm coming across as cynical on some of the stuff we read, but it doesn't stand the test of time, like that urban entry from the top down.12

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	Page 242		Page 244
1	BY MR. WELLS:	1	means of stopping a rifle.
2	Q. Well, pick a bullet that you use in a	2	BY MR. WELLS:
3	9-millimeter handgun.	3	Q. Do you have an understanding as to at
4	A. I don't know. I've not shot anyone with	4	what range in the civilian setting self-defense
5	a pistol.	5	encounters take place within?
6	I have confidence that I can hit	6	MR. BRADY: Objection. Vague. Calls for
7	them and expect individual incapacitation at 25	7	speculation.
8	meters or less.	8	THE WITNESS: I would be speculating, but, you
9	Q. So you would feel confident in a	9	know, really the information is in police reports.
10	9-millimeter round in terms of incapacitation, up		The majority of those are within 7 yards. So they
11	to 25 meters? Is that fair to say?		are pretty close proximity, and the way the rules
12	MR. BRADY: Objection. Vague.		are written for self-defense, you have to have
13	THE WITNESS: It is fair to say. I usually		capability and intent and that usually gets them
14	consider so I mean there is a good couple		very close before they commit. About three yards.
	studies out. I don't know where they came from,		BY MR. WELLS:
	but 12 rounds seems to be the minimum that leads to	16	
1	incapacitation. And these when they are broken		yards, would a 9 millimeter handgun have an
	down there is a very good article. It talks		incapacitation ability?
	about four rounds are likely to miss simply because	19	· ·
	you are a nervous wreck, and your body alarm	20	5 6
	response is going on. Or you're going to hit the		yes. Most likely. Again, they can pick a
	wrong part of the body, not to incapacitate, and		full-known jacket bullet. And one designed for
	finally four might get into the right location and		shooting paper. So with appropriate expanding
	perform well. So the argument would be minimum to		
	Page 243		Page 245
1	twelve, or argument presented. Now I don't have	1	BY MR. WELLS:
	evidence one way the or other.	2	Q. Appropriate expanding bullets, what type
3	Q. Now, speaking of an M4 or an M16 firing		
1 5		3	of bullets are you referring to?
		3	of bullets are you referring to? A. Well, the 147 grain Speer gold dot with
4	an M855, at what range would you feel confident	4	A. Well, the 147 grain Speer gold dot with
4 5	an M855, at what range would you feel confident that that round would have incapacitation ability?	4 5	A. Well, the 147 grain Speer gold dot with a polymer filling. The Hornady HTX bullet or
4	an M855, at what range would you feel confident that that round would have incapacitation ability? MR. BRADY: Objection. Vague. Compound.	4 5 6	A. Well, the 147 grain Speer gold dot with a polymer filling. The Hornady HTX bullet or some of these, they have a polymer fill to them.
4 5 6 7	an M855, at what range would you feel confident that that round would have incapacitation ability? MR. BRADY: Objection. Vague. Compound. THE WITNESS: I've been presented by the Army	4 5 6 7	A. Well, the 147 grain Speer gold dot with a polymer filling. The Hornady HTX bullet or some of these, they have a polymer fill to them. The research is done by the FBI that we are all
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	Dage 246		Dece 249
1	Page 246 the drama that happens with all that.	1	Page 248 factors, weighing in on just how to use force.
$\begin{vmatrix} 1\\2 \end{vmatrix}$	I just read the reports, and I	$\begin{vmatrix} 1\\ 2 \end{vmatrix}$	
	don't remember the titles. It would be along the	3	-
	handgun stopping power or bullet performance	-	in legal actions after an incident. That is why
	reports.		they are not consistent because you can get
6	Q. How do you know Buford Boone?		variations of that across legal precedent.
7	A. When I was at Quantico, he was the lead	7	
· ·	ballistician at the FBI Academy, and my staff would		civilian environment, any use of a firearm has to
	get briefs from him. He would come over and talk		be legally justified, right?
	and "Here is what we think we know." "Here is	10	
	testing we are going to do." And eventually the		conclusion.
	feedback, he would let us know changes to common	11	
	thought on fact.	12	
13	Q. When is the last time you spoke to		BY MR. WELLS:
1	Mr. Boone?	14	
15	A. Probably a year ago. He had to educate		about proximity, capability and intent and some of
-	me on how important the crown of a rifle barrel is		the training that applies for self-defense
	for accuracy. Apparently he did a study in 2013,		scenarios, those are proven concepts legal
	and I heard about it last December. I was mad.		concepts for someone who is thinking about using a
	Things I have been quoting for years, he proved to		firearm for self-defense to understand, correct?
	be false.	20	MR. BRADY: Objection. Vague. Compound.
$ ^{21}_{22}$	Q. Would you agree that in combat, you		Calls for a legal conclusion.
	rarely see the enemies you are firing at?	22	-
23	MR. BRADY: Objection. Vague.		of the consequences after the fact. That you may
24		24	
1	Page 247 THE WITNESS: I do agree.	1	Page 249 win the fight and lose the your long-time access
	BY MR. WELLS:		to freedom.
3	Q. Is that a difference between combat and	3	
	a civilian self-defense environment?	4	
5	MR. BRADY: Objection. Objection. Vague.		conversations in basic training. And to be fair
1	Calls for speculation.		I teach a lot of women. The first thing I tell
	THE WITNESS: I have not had a civilian		them is their greatest self-defense tool is to wear
8	confrontation to know. I have suspicions that		tennis shoes. Run away from the enemy.
	would believe that the opponent would be more	9	
	visible, but it would be really up close.	-	issued to officers?
	BY MR. WELLS:	11	
12	Q. You mentioned before certain rules that		it has three different magazines in it. So the
	govern or you just mentioned rules describing		service can order whichever they want. 21 is
	proximity, capability and intent. What were you		standard. 17 or 15 rounds are available.
	referring to.	15	
16	A. Justification for self-defense.		or that is provided to the members of the military,
	Justification for hostile action. There is more	17	
1	these are just conversations: How do you know	-	general public?
	you're in danger? How do you know he is a danger	19	•
	or she? How do you know they are capable of		but it is the same I don't know if there is any
	then you get into these layers. And this is just		design changes, optics or how the internal safety
23	conversations on disparity. Disparity of size, disparity of skill, disparity of age. Disparity of strength. So these are all		works, but they are replicas of each other in similar appearance.Q. Do they have the same performance

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	Page 250		Page 252
1	capabilities?	1	the firing magazine, but all testing on higher
2	A. Same velocity.	2	capacity magazines are designed as underarm drums,
3	MR. BRADY: Objection.	3	60-round magazine and none of those would work,
4	THE WITNESS: I would think, yes.	4	okay?
5	BY MR. WELLS:	5	Q. So if reliability were not a concern
6	Q. So same bullet, same velocity. That is	6	from your perspective, is there any limit for what
7	the relevant consideration?	7	you would hope for in a magazine capacity for an
8	A. Well, I said that too fast. They can	8	M16 or an M4?
9	fire the same bullet. They won't choose the	9	MR. BRADY: Objection. Vague.
	military bullet. They will take a better bullet	10	THE WITNESS: Yes. The limit would be based
	and then have a better performance on the target	11	on some form of experimental test such as how
	than service pistol with a ball of ammo.		quickly can I get into and out of these firing
13	Q. You mentioned the military issues M17s		positions across multiple target engagement and
	with either a 21 round magazine or 17 round		multiple firing positions and the weight of the
	magazine. Is that right?		ammo didn't cause a change on the engagement spee
16	A. They have the option when they are	16	So I run a baseline. Here is my
	making the contract to pick one of those.		30-round magazine. I run through that baseline
18	Q. Are you aware that the SIG Sauer and M17		test. Here is my speed and accuracy, and then
	has an extended 30-round magazine option?		start stepping up this ammo until I get a
20	A. I was not aware.		degradation, then I would be able to determine the
21	Q. And you mentioned that the M17 has a		answer to that.
	15-round magazine option; is that right?		BY MR. WELLS:
22	A. It does. Let me clarify.	22	Q. You sometimes carry a GLOCK G42 as you
23 24	The Army uses a larger slide in		concealed carry weapon, correct?
- 1			
1	Page 251		Page 253
1	10 I may have this heatmands. One of the	1	A 542 42V 10 Lowitch it and demanding
	18. I may have this backwards. One of the	1	A. 542, 43X, 19. I switch it up depending
2	services ordered a shorter compact pistol, M17, and	2	on how I'm dressing.
2 3	services ordered a shorter compact pistol, M17, and they are the one that bought the longer pistol. So	2 3	on how I'm dressing. Q. What do you mean?
2 3 4	services ordered a shorter compact pistol, M17, and they are the one that bought the longer pistol. So they had two; M17 and M18.	2 3 4	on how I'm dressing.Q. What do you mean?A. Some weapons are smaller in design and
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2 3 4 5 6 7 8 9 10 11	services ordered a shorter compact pistol, M17, and they are the one that bought the longer pistol. So they had two; M17 and M18. They both had replicas on the civilian market. Looked the very same, and you can put whatever ammo you feel necessary. Q. You wrote in your report that virtually all boxed magazines for M16 and M4 rifles in the military use 30-round magazines. Why is the standard rifle magazine in the military larger than	2 3 4 5 6 7 8 9 10 11	 on how I'm dressing. Q. What do you mean? A. Some weapons are smaller in design and easier to carry. At all times you kind of have to dress down, right? Tucking in your shirt doesn't help conceal a weapon. And people get nervous whe they see weapons, so it is better to conceal it. It is better not to telegraph it to people you are carrying it. So you are trying to not show it as a good civil action to those around me and as a
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Page 254	Page 256
1 12-round, kind of, best guess, volume you need to	1 released the G42, I bought several, just as I did
2 win these fights.	2 with the G43. When carrying the G42 and G43, I
3 Q. When you engage in concealed carry with	3 always carried two spare magazines to make up for
4 a GLOCK G42, what magazine capacity does that GLOCK	4 their reduced ammunition capacity but felt
5 G42 have?	5 comfortable knowing I had a gun on me with
6 A. I quit wearing it. I now carry GLOCK	6 sufficient ammunition to readily address an
7 43X with 15-round magazine, and one in the chamber.	7 attack." Did you write that?
8 Q. Was there a period of time when you	8 A. I did.
9 carried the GLOCK G42?	9 Q. And you agree with that?
10 A. There was, and then GLOCK built a better	10 A. Not now. I kind of have come off the
11 pistol, so I replaced it. The G42 sits in the	11 two spare magazines because I found a
12 drawer somewhere.	12 higher-capacity magazine that held nine plus one,
13 Q. Mr. Eby, I'm going to show you a	13 and then in a lot of these articles, there was
14 document that I would like to mark as Deposition	14 research that said the majority of civilian
15 Exhibit 8.	15 gunfights never get to the second magazine. So it
16 (Exhibit 8 was marked for	16 kind of shook my stance a bit that I don't need all
17 identification.)	17 of that ammunition. The majority of the test is a
17 identification.) 18 BY MR. WELLS:	18 little earlier. So I would probably change that
19 It is called "The GLOCK Slimline	19 now if I had a limited capacity of 6 round, I would
	20 carry a spare mag. If I had capacity of 15, that
20 Advantage." Do you see that?21 A. I do.	21 is probably sufficient. And all of the evidence
	22 indicates.
22 Q. Who wrote this article?23 A. I did.	23 Q. Just looking here, at the next
	24 paragraph, it says "When GLOCK released the G43X
24 Q. What is this article about?	
Page 255	Page 257
1 A. GLOCK asked me to write something, and	1 MOS, I immediately bought two, and outfitted each
2 then they directed me what to write on. So they	2 of them with a red dot sight. I carried mine in an
3 wanted to market these GLOCK Slimlines.	3 appendix holster where my G19 normally sits, and my
4 So to meet that requirement, I	4 wife carries hers in a purse designed for quick
5 wrote this article. So they kind of controlled the	5 access. The new 10-round magazine capacity seems
6 message ahead of time. They had you select from	6 sufficient to carry without spare magazines and is
7 do you want to talk about A or talk about B, and	7 much easier to conceal in warmer weather.
8 then you build it out from there.	8 As soon as the weather permits,
9 Q. Did you get paid by GLOCK?	9 I will move back to my G19, but I do not feel
10 A. I did get paid by GLOCK. They offered	10 shortchanged in the least, carrying the G43X."
11 to send anything I needed. I didn't need it.	11 Do you agree with that
12 Those are not my pistol photos. They put in their	12 statement?
13 stock photos.	13 A. I do.
14 Q. Do you agree with what you wrote here?	14 Q. And the G43X MOS that you are
15 A. I do. I had to reread it again.	15 referencing in there, that was a 10-round magazine?
16 Q. Okay. Just directing your attention	16 A. Stock is 10 rounds. I found a Shield
17 here directing your attention to this paragraph	17 Arms magazine that holds 15.
18 here that says "In previous years," do you see that	18 Q. And is that what you carry now; 15-round
19 in the middle of the right column?	19 magazine?
20 A. I do.	20 A. It is.
21 Q. And you wrote, "In previous years I	21 Q. Let me direct you back to your expert
	22 report. Okay? I'm directing you back to what has
22 limited myself to the red dot adorned G19 and had	
22 limited myself to the red dot adorned G19 and had23 great difficulty wearing it without looking sloppy24 wearing an untucked oversized shirt. When GLOCK	23 been previously marked as Deposition Exhibit 1,24 which is your initial expert report, page 9.

Page 258	Page 260
1 Directing your attention to the	1 a fire command.
2 top of the page underneath "rate of fire." It	2 Q. And do you have an understanding as to
3 says, "It is our understanding that the Seventh	3 whether that is also true in the Army?
4 Circuit Court Appeals indicated in its opinion for	4 MR. BRADY: Objection. Vague. Calls for
5 this case that the, quote, "rate of fire" of the	5 speculation.
6 semi-automatic rifles, handguns and shotguns, that	6 THE WITNESS: I would speculate they use the
7 Illinois has deemed," quote "assault weapons,"	7 same. We stole their publicist. We have their
8 closed quote, "could be relevant to the legal	8 terms, so we use the term "rate of fire" because of
9 analysis whether they are different in kind from	9 them.
10 the M16 fully automatic rifle." Do you see that?	10 BY MR. WELLS:
11 A. I do.	11 Q. And I think you discussed this a little
12 Q. What is your understanding as to what	12 bit, but I may have missed some of it. Explain to
13 the Seventh Circuit has said about the relevance of	13 me what is the difference is between cyclic rate,
14 rate of fire to this lawsuit?	14 and rate of fire.
15 MR. BRADY: Objection. Calls for a legal	15 A. Cyclic is a sub-performance so rate
16 conclusion. Vague.	16 of fire has multiple levels, right? One shot.
17 THE WITNESS: As opposed to what it says? It	-
18 is debatable about whether or not the AR-15 is	18 sustained rate up to 45 rounds per minute. That is
19 equal to military-grade weapon, so I disagree with	19 actually a very new term for me. I didn't know the
20 it.	20 Army stuck it in their post.
21 BY MR. WELLS:	21 And then, cyclically, it is just
22 Q. What were you asked about in this	22 a scientific wonderland of what you could do if the
23 litigation in terms of rate of fire?	23 world were perfect and you had a bunch of full
A. Is it validated? Is it legitimate? It	24 magazines and are able to carry them.
Page 259	
1 can be. The sustained rate certainly has control	1 Q. Which concept is more useful in your
2 of that. The cyclic rate is physically impossible	2 perspective from your perspective, in training
3 to achieve but scientifically true.	3 Marines? Is it cyclic or rate of fire?
4 So it is based on just measuring	4 MR. BRADY: Objection. Compound.
5 one cycle of operation and multiplying that	5 THE WITNESS: Again, I think I lost you.
6 dividing that into 60 seconds, but we haven't found	6 Cyclic rate is a form of rate of fire. It is not
7 anybody that can reload that fast and carry enough	7 different. It is just one of the rates of fire;
8 ammunition to do it.	8 slow, medium, fast. Cyclic is the fastest. Does
9 So cyclic rate is not a term we	9 that make sense?10 BY MR. WELLS:
10 tend to use very often because it is unachievable.	
11 We do use these other rates where we will give12 time/seconds, like fire one round every three	11 Q. I think so, but is it fair to say that12 the point you are making is that cyclic rate is
12 time/seconds, like fire one found every tiree 13 seconds.	12 the point you are making is that cyclic rate is 13 essentially a theoretical concept because it is
14 The commander will decide, based	14 based on conditions that don't really exist in the
15 on his evaluation of the mission, how much time he	15 real world?
16 needs to expose his force to close it in. Then he	16 A. Yes, sir. What happens is you would
17 determines how much ammunition he needs to have	17 have to have 30 full magazines available. Remember
18 available or how much he can afford to lose and	18 I said we could only load, like, 28 rounds where
19 still get to the objective, pull a limited advance,	19 the magazine fails to lock, and the magazine would
20 and still deny a counterattack.	20 also you would have to have sufficient rounds
21 Q. Do you agree that rate of fire is a	21 available and able to carry them, realistically.
22 concept that term is used in the Marine Corps?	22 Not just lay them on table in front of you. How
A. Yes. We use the term, "rate of fire" in	23 could you get them and get them reloaded?
24 some form of command in the assignment portion of	

1	Page 262		Page 264
1	half. Most shooters are in this 3-to-10-second	1	Q. Is it fair to say that actually firing
	magazine change. So now you will have to use a		at the cyclic rate of 700 to 900 rounds with an M27
	robot to do the reloads. Not a human. Because of		would burn through a Marine's ammunition in 30
	the fragilities of human skills. So you just can't		seconds?
5	get the conditions set to truly test if that is	5	MR. BRADY: Objection. Vague. Incomplete
6	true.		hypothetical.
7	O. Earlier we looked at an exhibit attached		THE WITNESS: I don't think that is fair to
	to your report discussing the M27 infantry		say. I don't think anybody could reload that fast.
	automatic rifle, and it had 700-to-900-round cyclic		No. I don't think that is fair to say.
	rate listed. Do you recall that?	10	I don't think anybody could
10	A. I do.	-	reload that fast in under 30 certainly not in 30
11			seconds. Even if you were just wasting ammo, and
	Q. What is the typical combat load in a		
	Marine carrying an M27?		not trying to manage the recoil and keep the shots
14	MR. BRADY: Objection. Vague.		in a specific area, which forces you to slow down. BY MR. WELLS:
15	THE WITNESS: It is we do a METT-K		
	analysis. So what is my mission? What is the	16	
17	5		looked at. It was marked as Deposition Exhibit 3,
	available; time, space, logistics?		which was the 2008 publication, "Field Manual
19	So without a mission being		3-22.9." Do you recall looking at this document
	assigned, and I'm just standing around on guard		earlier?
	duty, I typically will have one magazine in the	21	A. I do. For years.
	rifle and 6 on my body.	22	Q. You said you looked at these for years?
23	Once I get a mission assigned,	23	A. Yes, I've seen these. These are what we
24	there is no standard there is no chain. It has to	24	quote in order to get meritorious promotions. This
	Page 263	1	Page 265
	have that METT-T analysis to determine how much		data that just appears, where you are supposed to
	ammo, how much time? What danger areas do we have		hit the "I believe" button and verify.
	to cross, and how long do we think it will take to	3	Q. Do you believe so I'm showing you
	do that? So we will build out the solution for		what has been marked as page 21, which has Bates
	each mission.	5	
6	Q. Would you expect the Marine an		Number of OAG003216, and it is a chart labeled
- 1		6	"Characteristics of M16/M4 series weapons." Do yo
	individual Marine equipped with an M27 ever to	6 7	"Characteristics of M16/M4 series weapons." Do yo see that?
8	individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person?	6 7 8	"Characteristics of M16/M4 series weapons." Do you see that? A. I do.
8 9	individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague.	6 7 8 9	"Characteristics of M16/M4 series weapons." Do yo see that? A. I do. Q. Do you have any reason to dispute the
8 9 10	individual Marine equipped with an M27 ever tocarry 700 to 900 rounds on their person?MR. BRADY: Objection. Vague.THE WITNESS: Not at all. The most you could	6 7 8 9 10	"Characteristics of M16/M4 series weapons." Do you see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart?
8 9 10 11	 individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague. THE WITNESS: Not at all. The most you could probably carry is 350 rounds, and it is usually 7 	6 7 8 9 10 11	"Characteristics of M16/M4 series weapons." Do you see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart? MR. BRADY: Objection.
8 9 10 11 12	 individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague. THE WITNESS: Not at all. The most you could probably carry is 350 rounds, and it is usually 7 magazines fully loaded and another 210 available on 	6 7 8 9 10 11 12	 "Characteristics of M16/M4 series weapons." Do yo see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart? MR. BRADY: Objection. THE WITNESS: I do. At the very bottom where
8 9 10 11 12 13	 individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague. THE WITNESS: Not at all. The most you could probably carry is 350 rounds, and it is usually 7 magazines fully loaded and another 210 available on a butt pack somewhere to reload with. 	6 7 8 9 10 11 12 13	 "Characteristics of M16/M4 series weapons." Do you see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart? MR. BRADY: Objection. THE WITNESS: I do. At the very bottom where it talks about maximum effective range, you can
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague. THE WITNESS: Not at all. The most you could probably carry is 350 rounds, and it is usually 7 magazines fully loaded and another 210 available on a butt pack somewhere to reload with. Now the automatic rifle the guy that is in that role, he will probably be carrying 14 fully loaded magazines. And that rifle, when we bought it, we wanted 100-round drum, but we could not get it to work. We did not want a belt feed because they are unreliable during assaults. They tend to get disrupted and not feed properly, so we went back to the box for 30 rounds because that is the only reliable high-level	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 "Characteristics of M16/M4 series weapons." Do yo see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart? MR. BRADY: Objection. THE WITNESS: I do. At the very bottom where it talks about maximum effective range, you can find zero study to get us that information. This turned out to be "graduated range" was the term before 1960. And since then, the terms moved from "graduated range," how far the sights slide, to "effective range," implying that they are equally capable and all fine. So that is incorrect. And cyclically, I've never been able to test. Q. Other than those two particular categories, maximum effective range and cyclic
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	individual Marine equipped with an M27 ever to carry 700 to 900 rounds on their person? MR. BRADY: Objection. Vague. THE WITNESS: Not at all. The most you could probably carry is 350 rounds, and it is usually 7 magazines fully loaded and another 210 available on a butt pack somewhere to reload with. Now the automatic rifle the guy that is in that role, he will probably be carrying 14 fully loaded magazines. And that rifle, when we bought it, we wanted 100-round drum, but we could not get it to work. We did not want a belt feed because they are unreliable during assaults. They tend to get disrupted and not feed properly, so we went back to the box for 30 rounds	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 "Characteristics of M16/M4 series weapons." Do you see that? A. I do. Q. Do you have any reason to dispute the information that is in this chart? MR. BRADY: Objection. THE WITNESS: I do. At the very bottom where it talks about maximum effective range, you can find zero study to get us that information. This turned out to be "graduated range" was the term before 1960. And since then, the terms moved from "graduated range," how far the sights slide, to "effective range," implying that they are equally capable and all fine. So that is incorrect. And cyclically, I've never been able to test. Q. Other than those two particular

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	Page 266		Page 268
1 N	MR. BRADY: Objection. Misstates testimony.	1	MR. BRADY: Objection. Vague.
	ue. Compound.	2	THE WITNESS: I do. A level of accuracy is
-	ΓΗΕ WITNESS: These look achievable under		determined by the enemy.
	imum effective rate of fire. I don't know that		BY MR. WELLS:
	uld dispute any of these right now.	5	Q. And in this paragraph, would you agree
	MR. WELLS:		that you describe how a range increases, the rate
	Q. All right. In your expert report, you	7	of fire should decrease to maintain accuracy; is
	that there is a second question of a	8	that right?
	ticable rate of fire to maintain accuracy. Do	9	A. Yes.
-	recall that from your expert report?	10	Q. And that is something that the military
-	A. Not immediately. That is shooter based.		trains?
	is a good training problem to have. Auto	11	A. Yes. We have this phrase that we use.
	eases, an effective rate of fire on something		"Stability increases." As stability increases, you
14 meas	•		can increase range with equal accuracy. Meaning
	Q. Do you agree that whatever rate of fire		I'm standing. I could shoot at a certain level of
	lected, it is important for to maintain		accuracy.
17 accu	-	17	If I wanted to go further with
	MR. BRADY: Objection. Vague.		the same level of accuracy, I could increase
	ΓΗΕ WITNESS: You would have to define what		stability, like a supported kneeling against the
	racy is because to me, accuracy is the area in		wall. And then to get even further accuracy, I
	ch the enemy potentially could be hiding in that		could go to a squatting; two elbows on two knees.
	we been ordered to shoot towards, and those	22	So as stability increases, equal
	ies I quote, there is benefit in just shooting		level of accuracy increases with range.
24 arou	nd the area, not knowing exactly where they are	24	Q. So directing your attention to the last
	Page 267		Page 269
	ng and increasing the chance for a hit as well		sentence in this paragraph where it says, "So the
	creasing the psychological suppression of the		practical rate of fire for M16 is also much greater
3 end.			than the practical rate of firearm for a
4	So, accurate enough good		semi-automatic firearm in a self-defense situation
	igh not precision shots. I don't want to keep		where there is a particular target or target
	oting the same leaf.	6	causing a threat." What do you mean here?
7 (Q. And what you just described, though,	7	A. Well, I mean I have automatic fire, so I
8 that	is a military setting you are referring to; is	8	can triple the amount of rounds I put out.
9 that	right?	9	Q. Does that mean the M16 is a superior
10 I	MR. BRADY: Objection. Vague.	10	weapon for a self-defense situation?
11 BY	MR. WELLS:	11	MR. BRADY: Objection. Vague.
12 (Q. Was that a yes?	12	THE WITNESS: For the military it is.
13	A. Yes.	13	BY MR. WELLS:
14 (Q. I put back up on the screen your report,	14	Q. What about in a civilian setting?
15 page	e 10. Directing your attention to the top there	15	MR. BRADY: Objection. Vague.
	ys "What's more, there is the separate	16	THE WITNESS: It would equal the same
	stion of a practical rate of fire to maintain	17	
-	racy." Do you see that statement?	18	I'm in my home. My most likely target is 7 yards
	A. I do.		away. The most efficient way to increase the hit
	Q. And you wrote that?		potential against that target is with automatic
	A. I did.		fire. Having trained to do so because that is
	Q. And do you agree that it is important to		not easy. You have to manage recoil.
`	ao jou agree and it is important to		
23 asse	ss whether, in the rate of fire, it is	23	We have a significant training
	ss whether, in the rate of fire, it is ortant someone is maintaining accuracy?	23 24	We have a significant training effort to manage that recoil both in semi-auto

	Page 270		Page 272
1	methods and in auto. I would say that a pistol	1	MR. BRADY: Objection. Vague. Misstates the
1	caliber carbine that doesn't overpenetrate is		testimony.
3		3	THE WITNESS: That is correct. And that would
-	automatic fire would be the fastest way to end that	-	be situational, depending which one of these I
	self-defense problem. But you can't just get there		would choose. Now, if I'm a highly trained
	by buying and sitting, you have to train for it.		shooter, short-range target, an automatic fire is
7			going to benefit me, especially in a room clearing.
8			Possible target inside will come after me,
	9 of your or I'm sorry, your expert report		automatic fire would benefit me from that shooter.
) where you write, "In sum, there really is no way of		And depending on shooter capability, 3-25 will do
	reliably determining a, quote, "rate of fire,"		it. Once he gets further than that, you are more
	closed quote for semi-automatic firearms in light		effective to reduce the target if you slow down and
	of these variables.		aim.
14		14	Q. What numerical value are you using in
	b however, the rate of semi-automatic fire is		the second sentence to make the comparison for
	5 significantly less than that of automatic fire."		automatic fire?
17		17	A. I think I was using automatic burst,
	statements?		just pulling the trigger and getting more bangs out
19			of that trigger. So semi-automatic, I get one
$\frac{1}{20}$			shot. With burst, I get three. With an auto, I
	way of reliably determining a rate of fire for a		get whatever time frame I hold the trigger back.
	semi-automatic firearm?		Whether it is 1round or 30. So it is a simple math
23			of one trigger pull equals more.
	variables. The shooter has to be trained to manage	23	Q. So before you gave a 45-round figure for
	Page 271		Page 273
1	recoil. Now he can shoot faster, but it is not	1	a rapid semi-automatic fire, and you are saying
	effective. He is not having any effect with his		that the rate of fire and that rate of fire is
	bullets. He's probably shooting the ceiling.		significantly less than that of automatic fire.
4			What is the numerical rate per minute, rounds per
	got to understand how to manage my recoil. Have a		minute for automatic fire you're using for your
	weapon system that fits me. And then train to		benchmark there?
	develop a more efficient rate of fire that has an	7	MR. BRADY: Objection. Vague. Compound.
	effect against the opponent.	8	THE WITNESS: I've never tested it. I just
9			know I get more shots out per trigger pull.
	paragraph, when you say, "One thing is for certain.		BY MR. WELLS:
	r or	1 - 0	
11	The rate of semi-automatic fire is significantly	11	O. All right. I'm going to direct your
	The rate of semi-automatic fire is significantly less than that of automatic fire." What rate of	11 12	Q. All right. I'm going to direct your attention to the bottom of your expert report. Page
12	less than that of automatic fire." What rate of	12	attention to the bottom of your expert report, Page
12 13	less than that of automatic fire." What rate of semi-automatic fire are you using to make that	12 13	
12 13 14	less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence?	12 13	attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of
12 13 14 15	less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence?A. Sustained and rapid. Because of the	12 13 14	attention to the bottom of your expert report, Page10. Do you see where it says "sustained rate of fire?A. I do.
12 13 14 15 16	 e less than that of automatic fire." What rate of e semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I 	12 13 14 15	attention to the bottom of your expert report, Page10. Do you see where it says "sustained rate of fire?A. I do.Q. What does that mean?
12 13 14 15 16 17	 less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any 	12 13 14 15 16 17	 attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration
12 13 14 15 16 17 18	 less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any additional action of pulling the trigger. The 	12 13 14 15 16 17 18	 attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration without overheating my rifle is what that tends to
12 13 14 15 16 17 18 19	 e less than that of automatic fire." What rate of e semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any additional action of pulling the trigger. The additional action of pulling the trigger delays the 	12 13 14 15 16 17 18 19	 attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration without overheating my rifle is what that tends to mean.
12 13 14 15 16 17 18 19 20	 less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any additional action of pulling the trigger. The additional action of pulling the trigger delays the rate of volume of bullets that are going downward. 	12 13 14 15 16 17 18 19 20	 attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration without overheating my rifle is what that tends to mean. That usually stays 10 to 15
12 13 14 15 16 17 18 19 20 21	 less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any additional action of pulling the trigger. The additional action of pulling the trigger delays the rate of volume of bullets that are going downward. Q. And you said sustained and then rapid 	12 13 14 15 16 17 18 19 20 21	attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration without overheating my rifle is what that tends to mean. That usually stays 10 to 15 rounds per minute. That is about the duration of
12 13 14 15 16 17 18 19 20 21 22	 less than that of automatic fire." What rate of semi-automatic fire are you using to make that comparison in this sentence? A. Sustained and rapid. Because of the volume I could put out otherwise, is faster. If I can manage the recoil, then any semi any additional action of pulling the trigger. The additional action of pulling the trigger delays the rate of volume of bullets that are going downward. 	12 13 14 15 16 17 18 19 20 21 22	 attention to the bottom of your expert report, Page 10. Do you see where it says "sustained rate of fire? A. I do. Q. What does that mean? A. The ability to shoot for long duration without overheating my rifle is what that tends to mean. That usually stays 10 to 15

	Dago 274		Page 276
1	Page 274 experience as trainers, were we to estimate a	1	Page 276 training engagements developing initial skills,
	starting expectation for untrained shooters to		then the targets get harder after that; hiding,
3			smaller, obscure.
	percent hits on human-size target. Under no stress	4	Q. And the "rate of fire" column then, for
	of life-threatening events. Shooting primarily,		instance, 7 to 10 yards in that row, you assume a
	firing from the standing position, firing		rate of fire of 35 to 50 rounds per minute in a
1	semi-automatic fire with some reasonable degree of		60-second time period. Is that right?
8		8	A. Correct.
	rates and time frames, keeping careful notes for	9	Q. And with that 50 percent accuracy
	future refinement."	10	assumption, you would expect between 17 and a half
11	Did you write that?		to 25 of those rounds to actually hit a human-size
12	A. I did.		target. Is that right?
13	Q. And below that then you included a chart	13	A. Correct.
14	with three columns. The left column labeled	14	Q. And that is within a 7-to-10-yard
15	"distance" and right column labeled "time". Is	15	distance?
16	that right?	16	A. Correct.
17	A. That's right. I have no experiment to	17	Q. Am I right that the rapid semi-automatic
18	justify these. These are my opinions on paper.	18	rate that we looked at and the marksmanship
19	Q. And coming up with this opinion, you are	19	publication from the military is 45 rounds per
20	assuming an untrained shooter. Is that right?	20	minute. Is that right?
21	A. Yes. I'm assuming an untrained shooter	21	A. Yes.
22	because that really delays their reload time	22	Q. Do you agree with that, as a rapid
23	significantly.	23	semi-automatic achievable rate for a Marine or a
24	Q. What weapon were you assuming in	24	soldier?
	Page 275		Page 277
1	developing an assessment?	1	MR. BRADY: Objection. Vague. Compound.
2	A. You know what? I just picked any AR in	2	THE WITNESS: It's too vague. I need a
3	my brain. But any an M4 suffices. It is	3	condition statement. I need to know where you
	actually harder than an M16-A4 with a big buttstock	4	learned. How far is the target? What is my hit
	and long barrel is fatiguing. So you start seeing		rate percentage? Because these are all going to
	degradation of accuracy here and accuracy is a	6	change that rate of fire.
7	component of conditions.	7	If he is shooting 45 rounds a
8	Q. Accuracy being a component of the		minute and hits one target at 30 yards, that is
9	conditions, meaning that		ineffective. That is a horrible rate-of-fire
10	A. I'm sorry. I said 50 percent hits on		decision.
	human-size target. That is the accuracy component	11	So without having the full
			So without having the full
12	to the conditions. Instead of just shooting to	12	statement of what equipment am I wearing? What
12 13	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be	12 13	statement of what equipment am I wearing? What position am I shooting from? Supported or not
12 13 14	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because	12 13 14	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target?
12 13 14 15	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits.	12 13 14 15	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon
12 13 14 15 16	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits. Without that metric in there,	12 13 14 15 16	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon completion? None of those are in those theoretical
12 13 14 15 16 17	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits. Without that metric in there, they just pull the trigger and shoot somewhere	12 13 14 15 16 17	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon completion? None of those are in those theoretical rates of fire to have a conversation. It makes
12 13 14 15 16 17 18	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits. Without that metric in there, they just pull the trigger and shoot somewhere else. We don't know if that was of any other	12 13 14 15 16 17 18	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon completion? None of those are in those theoretical rates of fire to have a conversation. It makes them theoretical still.
12 13 14 15 16 17 18 19	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits. Without that metric in there, they just pull the trigger and shoot somewhere else. We don't know if that was of any other value. So by giving him some conditions, he is	12 13 14 15 16 17 18 19	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon completion? None of those are in those theoretical rates of fire to have a conversation. It makes them theoretical still. So these other conditions change
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12 13 14 15 16 17 18 19 20 21 22 23	to the conditions. Instead of just shooting to send rounds somewhere forward, there is going to be a metric here that slows down the shooter because now they need to achieve 50 percent hits. Without that metric in there, they just pull the trigger and shoot somewhere else. We don't know if that was of any other value. So by giving him some conditions, he is standing. He has to have 50 percent hits on human-size targets. When we say "human-size	12 13 14 15 16 17 18 19 20 21 22 23	statement of what equipment am I wearing? What position am I shooting from? Supported or not supported? What is the distance of the target? And what is the standard I need to achieve upon completion? None of those are in those theoretical rates of fire to have a conversation. It makes them theoretical still. So these other conditions change that because when a novice, an untrained shooter, shoots and he doesn't manage recoil well, it might

	Page 278		Page 280
1 comr	ponent they have to get to.	1	MR. BRADY: Objection. Vague.
-	2. How did you select the distances in the	2	THE WITNESS: I know the volume of fire in
	and column?	3	some of them, but, no, I did not prepare that.
4 A	A. I selected a start point and asked Mike	4	
	he thought of those. It was Mike Musselman.	5	Q. Why not?
	nodified it somewhat because we had lower	6	A. I didn't take the time to look for them.
7 expec	ctations of capability. I probably had doubled	7	This was based on me training some people on my
-	ange. He had and he said I don't think		range, and why I thought they were capable of
	nd then we got into a discussion on how long		doing, based on years of shooting with them
10 does	it take a novice to reload. We ended up with	10	either my range shooter or a range in Virginia when
11 this 5	5 to 10 this is just based on our own	11	I was living there and where I thought their
12 expen	rience, training people to shoot, in general,	12	capabilities were. Now, this is a human-sized
13 has n	ow been exciting to see capabilities develop	13	target. I don't normally give them that size. I
14 very	quickly.	14	normally give them, like, a pipe load. When I'm
15	It is a low capabilities, low	15	doing this, that's the lethal area. I want to
16 speed	ds. Maybe they are nervous. And this is about	16	narrow down the scope of misses.
17 some	body shooting, which all of that goes away when	17	Q. All right. I'm going to direct your
18 you a	are trying to survive as well as shoot.	18	attention now to page 11 of your expert report, and
19 Q	2. So is it fair to say that these	19	there is a section called "Self-Defense."
20 estim	ates well, in developing estimates like	20	Do you see that?
21 this, i	it is hard to do because there are some	21	A. I do.
	bles that you would need to assume or	22	Q. And you begin that section by saying,
23 consi		23	"Based on our training and experience, it is our
24 N	IR. BRADY: Objection. Vague. Compound.	24	opinion that the training and experience that you
	in Brill I. Objection. Jugue. Compound.	2.	opinion that the training and experience that you
	Page 279		Page 281
1 T	Page 279	1	Page 281
1 T 2 you c	Page 279 THE WITNESS: I think you could have that	1 2	Page 281 are referencing is training and experience you
1 T 2 you c 3 on ev 4	Page 279 THE WITNESS: I think you could have that could get 50 variations of this chart depending very person you talk to. So without running an experiment	1 2 3	Page 281 are referencing is training and experience you obtained in the military, plus those two civilian
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1 T 2 you c 3 on ev 4 5 and c 6 the sl	Page 279 THE WITNESS: I think you could have that could get 50 variations of this chart depending very person you talk to. So without running an experiment controlling what is the level of knowledge of hooter, what is the size of the target and	1 2 3 4 5 6	Page 281 are referencing is training and experience you obtained in the military, plus those two civilian trainings that we discussed before." Is that right? A. That is right. Q. And is it fair to say that the purpose
1 T 2 you c 3 on ev 4 5 and c 6 the sl 7 what	Page 279 THE WITNESS: I think you could have that could get 50 variations of this chart depending very person you talk to. So without running an experiment controlling what is the level of knowledge of hooter, what is the size of the target and position they are going to shoot from; what	1 2 3 4 5 6 7	Page 281 are referencing is training and experience you obtained in the military, plus those two civilian trainings that we discussed before." Is that right? A. That is right. Q. And is it fair to say that the purpose of your military training was to prepare for combat
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	Page 282		Page 28
1	A. Correct.	1	to point at the target even the young girls.
2	Q. And training on anti-tank weapons would	2	They are not going to point at it for an hour but
3	not be relevant for civilian self-defense?	3	to be competitive with it. No other semi-auto or
4	A. Correct.	4	slug or pump shotgun and no pistols pistols are
5	Q. What about training on a 50-caliber	5	extremely hard for people to manage. They can't
6	sniper rifle? Would that be relevant for civilian	6	point them at the target at a very short distance.
7	self-defense?	7	It is easier to miss with a pistol than a rifle
8	MR. BRADY: Objection. Vague.	8	design that points naturally at the target.
9	THE WITNESS: It would not be my choice as a	9	So I base that on my years of
10	self-defense weapon.	10	training people how to utilize all these; hunting
11	BY MR. WELLS:	11	scopes, rifles sniper rifles, pistols, shotguns.
12	Q. Would training that you received on	12	I've shot competitions with
13	grenade launchers in the military be relevant for	13	them, and in all of those it always comes back to
14	self-defense?	14	simple design that fits the shooter, that is
15	MR. BRADY: Objection. Vague. Calls for	15	well-balanced, doesn't knock them over. Doesn't
16	speculation.	16	create marksmanship flaws, and it is easy to aim
17	THE WITNESS: Not likely.	17	with.
18	BY MR. WELLS:	18	Now, they get in trouble
19	Q. All right. Directing your attention to	19	managing their recoil, and they get in trouble
20	paragraph A here, on page 11 of your expert report,	20	reloading.
21	you wrote, "The AR platform rifle has been the most	21	Q. Who gets in trouble?
22	significant design in weaponry for common use amon	g22	A. The shooters that I've been training
23	the public over the last 60 years."	23	with. On these novice shooters, they have a little
24	How would you define "AR	24	bit of trouble trying to reload the thing when it
	Page 283		Page 28
	1 460 200		1 age 20
1	platform rifle"?	1	runs dry, and then even with this buffer, they
1 2			-
2	platform rifle"?	2	runs dry, and then even with this buffer, they still have trouble keeping the sights down on the
2 3	platform rifle"? A. An adjustable buttstock with a buffering	2 3	runs dry, and then even with this buffer, they still have trouble keeping the sights down on the
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	Page 286		Page 288	
1	that second guy, and he shows up with an automatic	1	Q. And when you use "common use" here in	
2	weapon.	2	this particular sentence, you were relying on a	
3	If it is good enough for them,	3 statement in the Supreme Court opinion on		
4	why would it not be good enough for me when I'm	4	discussing buttocks; is that right?	
5	fighting first?	5	MR. BRADY: Objection. Misstates the	
6	Q. Was the original AR-15 designed by	6	testimony.	
7	Eugene Stoner, which was select fire with an	7	THE WITNESS: No, sir. Her statement came ou	
8	automatic fire setting, designed for common use	8	after the fact. I relied upon my readings over	
	among the public?	9	many years, over conversations around even lawsuits	
10	MR. BRADY: Objection. Vague. Calls for		about can you ban these weapons. And in those	
11	speculation.		lawsuits were phrases from the courts of "this is a	
12	THE WITNESS: That is speculative. I do know		common use weapon."	
13	he designed it hoping to target a military,		BY MR. WELLS:	
	contract and he got turned down, so he started	14	Q. Do you have a personal opinion as to	
	building it out for civilians. The military wasn't	15	whether or not AR-15 platform rifles should be	
	interested in it. They wanted to stick with 308s		banned for civilian use?	
	and bigger bullets and they weren't interested	17	A. I would not ban them. Yes, I do have a	
	he did build the AR-10 at the same time. They	18	personal opinion.	
	weren't interested in it.	19	Q. You mentioned earlier, and you mentioned	
20	So in order to fund his		in paragraph A here, the importance of the limited	
	lifestyle he offered it to this market, but to be		recoil of the 5.56-by-45-millimeter cartridge when	
	fair, he was earmarking this target and just didn't		fired from an AR-15 platform rifle.	
	make it initially.	23	Did you also mention that when	
24	Q. In the first sentence of paragraph A		you started your children out firing AR-15 platform	
	Page 287	-	Page 289	
1	here, you use the word "common use among the	1	rifles, you did so with .22 rimfire ammunition; is	
	public" the phrase "common use among the public.		that right?	
2	Where did you how did you	3	A. Yes, sir. I had an insert to an AR-15.	
	reach that conclusion that this particular weapon		I pulled both out and put in changed the charging	
	system is common use among the public?		handle and then they could learn how to hold the	
6	A. Supreme Court Elena Kagan just recently			
	The Supreme Court Elena Ragan Just recently	6	weapon how to aim the weapons. How to manage the	
	said she rephrased it I've heard it over and		weapon, how to aim the weapons. How to manage the	
7	said she rephrased it. I've heard it over and over again. You know 28 million in common use is	7	recoil without a heavier bullet than they were	
7 8	over again. You know, 28 million in common use is	7 8	recoil without a heavier bullet than they were prepared for. So they probably didn't shoot until	
7 8 9	over again. You know, 28 million in common use is the last number I read, but I just listened to the	7 8 9	recoil without a heavier bullet than they were prepared for. So they probably didn't shoot until 11 or 12 years old.	
7 8 9 10	over again. You know, 28 million in common use is the last number I read, but I just listened to the Supreme Court Justice say the very same thing on	7 8 9 10	recoil without a heavier bullet than they were prepared for. So they probably didn't shoot until 11 or 12 years old. Q. So is it your understanding that	
7 8 9 10 11	over again. You know, 28 million in common use is the last number I read, but I just listened to the Supreme Court Justice say the very same thing on the bump stock of these commonly used weapons.	7 8 9 10 11	recoil without a heavier bullet than they were prepared for. So they probably didn't shoot until 11 or 12 years old. Q. So is it your understanding that 556-by-45-millimeter calibers is more common in the	
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	D 400		D 000
1	Page 290 Q. So in making your recommendation about	1	Page 292 despite that comparative recoil because the 556 545
	civilian self-defense weapon, you recommend the		millimeter cartridge is more powerful. Is that
1	556-45-millimeter over the .22, but you would agree		fair to say?
	that the 556-45-millimeter cartridge has greater	4	A. It is. And the likely lethality of the
	recoil, right?		.22 bullets should not be something you bet your
6	-		life on. I wouldn't put those in the same
7	MR. BRADY: Objection. Compound. THE WITNESS: Yes, it does.		comparison.
	BY MR. WELLS:	8	The 556 should be compared to
9	Q. So why did you make that recommendation?	-	something like the 6.8 or 7.62, and this is the
10			mildest of all the recoiling, high-volume type of
	recommendation of using 5.56 mm because it is the		platforms. So a .22 would never come into this
	centerfire bullet. The rim rifle bullet is		conversation. Even into the conversation of
	completely unreliable. They don't always fire.		self-defense. It would be a poor choice and a high
	The way they are designed, it may not engage. They		risk to do that.
	are very prone to not feeding and chambering	14	Q. You would agree that in addition to the
	properly.		556-by-45-millimeter cartridge, there are AR-15
10	So the only military I have ever		platform rifles available in semi automatic that
	heard of using is the Israeli Mossad, who is		fire 6.5 Grendel ammunition?
	conducting assassinations with .22 ram fire. No	19	A. There are.
	one else outside of some occasional training	20	Q. And there are also AR-15 is that fire
	programs or marksmanship development programs,		300 blackout ammunition?
	nobody else is using .22 rimfire.	22	A. There are, yes.
22	The smallest center fire bullets	23	Q. And there are AR-15 semi-automatic
	that are predominantly in use are the 556-by-45 or		rifles that fire 7.62-by-39-millimeter ammunition?
	Page 291		Page 293
1	the civilian equivalent of .223 Remington.	1	A. Yes.
2	Q. So is it fair to say there is a trade	2	Q. Would all of those have higher recoil
3	off that you're accounting for. While you may	3	than a 556-by-45-millimeter cartridge?
4	increase the recoil, you get more power with the	4	
5	556-by-45-millimeter cartridge compared to a .22		A. 300 Blackout M would be approximate. It
	556-by-45-minimeter cartridge compared to a .22	5	A. 300 Blackout M would be approximate. It is just more expensive, lower volume because they
	rimfire, and you are willing to accept that		
6		6	is just more expensive, lower volume because they
6	rimfire, and you are willing to accept that	6	is just more expensive, lower volume because they don't sell as many of them, so it costs more per
6 7 8	rimfire, and you are willing to accept that trade-off; is that right?	6 7 8	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training.
6 7 8 9	rimfire, and you are willing to accept that trade-off; is that right? A. In development of skills, I'm willing to	6 7 8 9	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher
6 7 8 9 10	rimfire, and you are willing to accept that trade-off; is that right?A. In development of skills, I'm willing to accept that trade off. So I'm not willing to	6 7 8 9 10	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher recoil results that you mentioned, and more so than
6 7 8 9 10 11 12	rimfire, and you are willing to accept that trade-off; is that right?A. In development of skills, I'm willing to accept that trade off. So I'm not willing to recommend that a .22 for self-defense bullet by any means. I would recommend it is silly. Don't do it at all.	6 7 8 9 10 11	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher recoil results that you mentioned, and more so than that, probably there is 6.5 Creedmoor semi-autos.
6 7 8 9 10 11 12 13	rimfire, and you are willing to accept that trade-off; is that right? A. In development of skills, I'm willing to accept that trade off. So I'm not willing to recommend that a .22 for self-defense bullet by any means. I would recommend it is silly. Don't do it at all. And 556, is so common that it is	6 7 8 9 10 11	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher recoil results that you mentioned, and more so than that, probably there is 6.5 Creedmoor semi-autos. They had a remake. Another poor choice.
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6 7 8 9 10 11 12 13 14 15	rimfire, and you are willing to accept that trade-off; is that right? A. In development of skills, I'm willing to accept that trade off. So I'm not willing to recommend that a .22 for self-defense bullet by any means. I would recommend it is silly. Don't do it at all. And 556, is so common that it is less expensive than alternatives, at 22-250 or .243. Those bullets can cost \$3.00 each. This is	6 7 8 9 10 11 12 13	is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher recoil results that you mentioned, and more so than that, probably there is 6.5 Creedmoor semi-autos. They had a remake. Another poor choice. Semi-autos. Q. And the 300 Legend? A. I'm not familiar with that. Q. How about 450 Bushmaster?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	rimfire, and you are willing to accept that trade-off; is that right? A. In development of skills, I'm willing to accept that trade off. So I'm not willing to recommend that a .22 for self-defense bullet by any means. I would recommend it is silly. Don't do it at all. And 556, is so common that it is less expensive than alternatives, at 22-250 or .243. Those bullets can cost \$3.00 each. This is 40 cents. So now you get volume of time on gun and learn skills. Q. Right, but I'm asking specifically about the trade-off and the self-defense scenarios. So you mentioned the benefits of lower recoil, but actually the 5.56 x 45-millimeter cartridges, you acknowledge, has higher recoil than a .22 rimfire,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 is just more expensive, lower volume because they don't sell as many of them, so it costs more per shot fired at training. All of the others have higher recoil results that you mentioned, and more so than that, probably there is 6.5 Creedmoor semi-autos. They had a remake. Another poor choice. Semi-autos. Q. And the 300 Legend? A. I'm not familiar with that. Q. How about 450 Bushmaster? A. I've seen that. It shoots like a small school bus going down range. I would not recommend it. I remember when Trijicon was testing some of those out, and kind of a fad, came and went. Q. Is it fair to say that there are particular cartridges for the AR-15 that are larger caliber that would have significantly higher recoil
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	Page 294		Page 296
1	THE WITNESS: Yes, you could go with a longer	1	Q. Why is the 1,000 lumen flashlight
2	projectile like a 77 grain to get I don't know	2	necessary?
3	without special equipment you would notice the	3	MR. BRADY: Objection. Misstates the
4	recoil change. It is just shooting farther and	4	testimony.
5	better. But I think the recoil on the shooter	5	THE WITNESS: It is kind of the market
6	without special equipment would be the same.	6	standard right now. This is more cost-effective.
7	Q. But	7	It is shocking to the eye. When you blind somebody
8	A. I am sorry. We could even mitigate that	8	with that light and it stuns them a bit, they give
9	with a good muzzle break, which pulls the weapon	9	you more time for your response. It lets you
10	slightly forward as the bullet is leaving, and it	10	clearly see what you are up against, whether or not
11	reduces the recoil even further.	11	they are armed, enabled or whether or not they are
12	Q. I'm a little confused, then. If you are	12	just lost, drunk or on drugs.
13	firing 6.5 Grendel round out of an AR-15, are you	13	So that flashlight takes a lot
14	going to feel more recoil than your standard	14	of the assumptions out, and it works as a tool in
15	5.56-5.45 millimeter cartridge?	15	your favor to buy time.
16	A. I would opinionate, yes, you will, but I	16	BY MR. WELLS:
17	don't have any experience.	17	Q. Are there scenarios in the military
18	Q. All right. The firearm that you	18	where you are using an M4 or M16 when you wouldn't
19	recommend for home defense would be 11.5 inch I	19	want a flashlight mounted on your weapon because
20	assume that means barrel, AR platform short barrel	20	you would want to conceal your location?
21	rifle with a suppressor, loaded with a 30 round	21	MR. BRADY: Objection. Compound.
22	magazine, a 1,000-lumen flashlight on the side rail	22	THE WITNESS: We have flashlights on all of
23	and an adjustable bump stock to allow the weapon to	23	our weapons in one means or another, and we have
24	fit the clothing worn at the time it is needed?	24	good detailed conversations of when to use them.
	Page 295		Page 297
1	A. After you pay your two tax stamps, yes.	1	So if I'm in a long hallway of
2	Q. Why do you say "after you pay your two	2	the school and I'm having to look underneath the
3	tax stamps"?	3	staircase, I may not be able to see under there, so
4	A. Both of those are NFA items. The	4	I will hit it with a white light to see; however,
5	11-and-a-half-inch barrel is an NFA item, and the	5	if I don't have a good external security force, I
6	suppressor is an NFA item. So both of those have	6	would not turn the light on because that would
7	to be stamped.	7	indicate to somebody on the outside shooting in
8	It is potential the work	8	where I'm at, and they would draw fire.
9	around if you don't want to have any type of optic	9	So there are tactical
10	on it, you use a pistol brace and achieve that	10	considerations. There is good and bad for both.
	abouton homel, but you have a longy buttate als at		
11	shorter barrel, but you have a lousy buttstock at	11	It is just another tool available for us when the
	the end of the day. You can meet the stock well,		It is just another tool available for us when the time is needed.
12		12	
12 13	the end of the day. You can meet the stock well,	12	time is needed.
12 13 14	the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you	12 13 14	time is needed. BY MR. WELLS:
12 13 14 15	the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little	12 13 14 15	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C
12 13 14 15 16	the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little weird shortcut with the arm brace.	12 13 14 15 16	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C on page 11 of your rebuttal report here. Paragraph
12 13 14 15 16 17	the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little weird shortcut with the arm brace.Q. And you say "NFA," is that National	12 13 14 15 16 17	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C on page 11 of your rebuttal report here. Paragraph C discusses the features that are specifically
12 13 14 15 16	the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little weird shortcut with the arm brace.Q. And you say "NFA," is that National Firearms Act; is that right?	12 13 14 15 16 17 18	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C on page 11 of your rebuttal report here. Paragraph C discusses the features that are specifically referenced in the Illinois statute. You know that
12 13 14 15 16 17 18 19	 the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little weird shortcut with the arm brace. Q. And you say "NFA," is that National Firearms Act; is that right? A. Yes, sir. Q. Do you know whether suppressors are 	12 13 14 15 16 17 18	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C on page 11 of your rebuttal report here. Paragraph C discusses the features that are specifically referenced in the Illinois statute. You know that those features Illinois on rifles that Illinois restricts; EG pistol grips, barrel shrouds,
12 13 14 15 16 17 18	 the end of the day. You can meet the stock well, and it doesn't repeat the shots well. So you introduce a new problem trying to take this little weird shortcut with the arm brace. Q. And you say "NFA," is that National Firearms Act; is that right? A. Yes, sir. Q. Do you know whether suppressors are 	12 13 14 15 16 17 18 19 20	time is needed. BY MR. WELLS: Q. Directing your attention to paragraph C on page 11 of your rebuttal report here. Paragraph C discusses the features that are specifically referenced in the Illinois statute. You know that those features Illinois on rifles that Illinois restricts; EG pistol grips, barrel shrouds,
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P. 200	D 200
Page 298 1 to point out, I believe you said "rebuttal report."	Page 300 1 shroud I use as a definition for a free-floating
2 I'm not sure this is the rebuttal report.	2 handguard rail, and the original M4s I'm sorry.
3 MR. WELLS: I'm sorry. The initial report.	3 The M16A2s have a M16A4 had a full rail, and we
4 THE WITNESS: It is not unique to the civilian	4 put these rubber manta rail covers on those to
5 as they are to the military. So it is not unique,	5 reflect heat away from our hands.
6 so you can have a comfortable grip, so you can	6 Q. Do you agree that a pistol grip serves
7 sustain a longer duration of holding the weapon.	7 the same purpose on the military M4/M16 as it does
8 It is not unique to have a	8 on a civilian AR-15?
9 barrel shroud that prevents your hand from getting	9 MR. BRADY: Objection. Vague.
10 hot if you did fire off 15, 20 rounds and the	10 THE WITNESS: If the same purpose is to have
11 barrel started getting hot.	11 comfortable handgrip and to pull the weapon
12 Adjustable, removal stocks are	12 slightly backwards, then yes.
13 critical to adjusting the weapon to fit the	13 BY MR. WELLS:
14 shooter's stature, whether it 6'6 or 5'1, so the	14 Q. Do you agree that the barrel shroud
15 and we have seen zero evidence that a pistol grip	15 serves the same purpose on a military M4/M16, as it
16 versus a historic, slight curved buttstock enhances	16 does on a civilian AR-15?
17 or detracts from accuracy or speed of engagement or	17 MR. BRADY: Objection. Vague.
18 mobility.	18 THE WITNESS: It does. It just keeps my hand
19 It just tends to fit the natural	19 from getting hot.
20 lay of the hand with the thumb pointing upwards	20 BY MR. WELLS:
21 without any odd rotations. So it is comfortable	21 Q. Do you agree that a vertical foregrip
22 longer, perhaps. But I don't gain or lose anything	22 serves the same purpose on a military $M4/M16$, as it
23 with a pistol grip. Compared to a mini-14, does	23 does on a civilian AR-15?
24 not have a pistol grip.	24 MR. BRADY: Objection. Vague.
Page 299	Page 301
1 Barrel shrouds could be	1 THE WITNESS: We've moved away from those
2 important for all of us. Barrels get hot. I don't	2 vertical foregrips in the military. Civilians
3 know about removable buttstocks or why you would	3 haven't yet. It tends to cause the weapon to be
4 want to remove it at all but adjustable, absolutely	4 pulled downward on the shot, and it slows down the
5 made to fit the shooter.	5 second and third follow on shots. That was also
6 Q. And you mentioned barrel shrouds, and I	6 kind of a fad.
7 think you mentioned that a barrel shroud is	7 My hand gripping the forward end
8 important when you are discharging, for instance 15	8 and pulling backwards suffices.
9 or more rounds and the barrel gets hot. At what	9 Q. Do you agree that it serves the same
10 point in your experience, when you are discharging	10 purpose vertical foregrip in the military as the
11 rounds from an AR-15, does the barrel start to get	11 phrase context?
12 hot?	12 MR. BRADY: Objection. Vague.
13 MR. BRADY: Objection. Vague. Misstates the	13 MR. WELLS: I'm using purpose in the same way
14 testimony.	14 in which you used it in your report when you used
15 THE WITNESS: It also varies on the	15 the phrase "unique military purpose".
16 temperature outside. So, you know, December with	16 THE WITNESS: And I just said we moved away
17 20 degrees, I probably have double the time before	17 from them because they were hindering marksmanship.
18 July, 105 degrees, the barrel gets hot.	18 So the initial intent was to have a repeatable
19 In the military we wear gloves.	19 place to put your hand and pull backwards on the
20 So that retards the felt heat. Our new weapon	20 buttstock.
21 systems have free-floating rails where we don't	21 There was negative consequence
22 pull the barrel out of alignment because of some	22 in doing so that pulled down on the barrel gun that
22 put the barrel out of alignment because of some23 tension or stigmatic pressure. So there is24 different reasons for using those. So barrel	23 shot and then created a marksmanship flaw.24 So the solution to that was to

1	Page 302		Page 304
1	not use it as a place to grip the full hand, but to	1	The better position was just a
1	use it as a backstop to put my hand on the forend	2	hand on the foregrip in front of that vertical grip
	or the barrel, in this case, and pull backwards		with a thumb pointing at the target.
	against that vertical grip as a means to get steady	4	So the technique that was
5	pressure backwards, stabilizing the shot.		developed was shoot the first target, head and eyes
6	So it is an enhancement to		towards the second target, and the thumb will
	accuracy. In that sense, yes. It is just as		immediately point the weapon at the target.
	useful to enhance accuracy to a civilian than it	8	The vertical foregrip does not
	might be useful to a military person.	-	support that behavior and slowed down engagements
	BY MR. WELLS:		increased misses. We stopped using it as it was
11	Q. Do you agree that a flash suppressor		designed. We didn't ask for it. It is called "the
	serves the same purpose on a military M4/M16 as it		special operations modification kit." It just came
	does on a civilian AR-15?		
			with it. So everybody thought you were going to be
14	MR. BRADY: Objection. Vague.		you know, the next Navy SEAL if you used it. We stuck it on there. We tested it with a hindrance.
15	THE WITNESS: I do. I don't like them. The		
	flash suppressor is supposed to protect me, the		BY MR. WELLS:
	shooter, from losing low-light vision from the	17	Q. You disagree with the statement that
	flash of the muzzle but it served no purpose on		vertical foregrips assist in transitioning from
	managing recoil. I would prefer to see a muzzle		target to target in close-quarter battle combat?
	brake that helped pull some recoil off of the	20	A. I do.
	shooter.	21	Q. In making your recommendation about a
22	They both have the same purpose		weapon for self-defense, would you recommend
	is to prevent me from having night blindness		against having a vertical foregrip?
24	from the flash of the unburnt powder escaping the	24	A. I would.
	Page 303		Page 305
	barrel.	1	Q. Do you agree that the same rules of
2	Q. Does it have any role in avoiding being		physics in shooting fundamentals apply whether the
3	5		person is using the firearm as in the military or
4	MR. BRADY: Objection. Vague.		not?
5	THE WITNESS: No. That flash is pretty good.	5	
	We are not managing all of the powder burn, so the	5	MR. BRADY: Objection. Vague.
_		6	THE WITNESS: Yes.
	flash is still there. So flash suppressor is for	6	THE WITNESS: Yes. BY MR. WELLS:
8	flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the	6 7 8	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would
8 9	flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night	6 7 8 9	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an
8 9 10	flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness.	6 7 8 9 10	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired
8 9 10 11	flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS:	6 7 8 9 10 11	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct?
8 9 10 11 12	flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS: Q. I'm directing your attention to Exhibit	6 7 8 9 10 11 12	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct? MR. BRADY: Objection. Vague. Compound.
8 9 10 11 12 13	 flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS: Q. I'm directing your attention to Exhibit 4 to your rebuttal report, which, again, is TC 3229 	6 7 8 9 10 11 12 13	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct? MR. BRADY: Objection. Vague. Compound. THE WITNESS: No, they are not. The physics
8 9 10 11 12 13 14	 flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS: Q. I'm directing your attention to Exhibit 4 to your rebuttal report, which, again, is TC 3229 Bates-stamped May 13th, 2016, particularly page 46. 	6 7 8 9 10 11 12 13 14	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct? MR. BRADY: Objection. Vague. Compound. THE WITNESS: No, they are not. The physics of the M14 is going to show significant increase
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8 9 10 11 12 13 14 15 16 17 18 19 20	 flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS: Q. I'm directing your attention to Exhibit 4 to your rebuttal report, which, again, is TC 3229 Bates-stamped May 13th, 2016, particularly page 46. The top of the page says "vertical foregrip." Do you see that? A. I do. I don't agree with it. Q. What specifically don't you agree with? A. In testing these on multiple targets 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct? MR. BRADY: Objection. Vague. Compound. THE WITNESS: No, they are not. The physics of the M14 is going to show significant increase recoil impulse at heavier platform, longer platform, so pointing at target to target is going to be slower. Holding it up for any duration of time is going to be more difficult. And managing recoil to get the sight to follow on shots is going
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 flash is still there. So flash suppressor is for the shooter, not for the enemy. Prevent the shooter from losing night vision night blindness. BY MR. WELLS: Q. I'm directing your attention to Exhibit 4 to your rebuttal report, which, again, is TC 3229 Bates-stamped May 13th, 2016, particularly page 46. The top of the page says "vertical foregrip." Do you see that? A. I do. I don't agree with it. Q. What specifically don't you agree with? A. In testing these on multiple targets engaging this during the combat marksmanship development program, we tried to do this, and it 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: Yes. BY MR. WELLS: Q. And those same rules of physics would apply to a 5.56, 545-millimeter-round fired from an M14 or M16 as to 5.56, 545-millimeter round fired from a civilian AR-15, correct? MR. BRADY: Objection. Vague. Compound. THE WITNESS: No, they are not. The physics of the M14 is going to show significant increase recoil impulse at heavier platform, longer platform, so pointing at target to target is going to be slower. Holding it up for any duration of time is going to be more difficult. And managing recoil to get the sight to follow on shots is going to be slower. So, no. I don't agree with that. BY MR. WELLS:

Page 306	Page 308 1 MR. WELLS: Once we go off the record, I'd be
1 A. I did. Maybe I misunderstood the	6
2 question because I thought you were talking about3 M14.	2 happy to chat with you. Do you have anything?3 MR. BRADY: No, sir.
	4 MR. WELLS: Would you like to reserve
4 Q. No. No. I'm sorry. I was asking 5 about M4/M16.	-
6 A. Oh. No. I'm sorry. I heard M14. No 7 buffer system.	6 signature. 7 MR. BRADY: It is my understanding that Miss
8 So M14/M16, the trade space now	7 MR. BRADY: It is my understanding that Miss8 Duffy needs to get some clarification from the
	9 witness before there is a draft of the transcript.
9 is length and weight. The M4 is shorter. Your	-
10 shorter barrel. That weight comes closer to my	10 Pending that and his review, yes, reserved.
11 body. It is easier to manager. Easier to point	11 MR. WELLS: So at this point, again, we are
12 faster. So let's start over and ask that question	12 concluded and we can go off the record.
13 again.	13 FURTHER DEPONENT SAITH NAUGHT
14 Q. Yes. I think it got confused. I think	14 (Proceedings concluded at 4:30
15 you may have heard me say M14. I'm not talking	15 p.m.)
16 about the M14. I'm asking the basic question about	16
17 a 556-by-45 millimeter NATO round that is shot from	
18 an M4 rifle, M4. The same rules of physics will	18
19 apply to that 556 NATO round if it is shot from a	19
20 civilian AR-15, correct?	20
21 MR. BRADY: Objection. Vague.	21
22 THE WITNESS: Yes. I think if you match up	22
23 the systems, you know, the military just prescribed	23
24 what we put on there. The civilian one might be	24
Page 307	Page 309 1 IN THE UNITED STATES DISTRICT COURT
1 lower impulse if we put on a muzzle brake. But the	FOR THE SOUTHERN DISTRICT OF ILLINOIS
2 military will have a flashlight.	3 CALEB BARNETT, et al.,)
3 Q. Okay. Give me just it is 4:11. Why) No. 3:23-cv-209-SPM 4) No. 3:23-cv-141-SPM
4 don't we take a five-minute break real quick. I	Plaintiffs,) 5 Vs.)
5 think I'm done. I just want to double-check here.) No. 3:23-cv-192-SPM 6) No. 3:23-cv-192-SPM
6 So let's be back at 4:15.	KWAME RAOUL, et al.,) 7)
7 (Recess.)	Defendants,)
8 MR. WELLS: The clock struck 4:15, and we've	8)
9 been going for a long time. So I want to get you	9 FEDERAL FIREARMS) LICENSEES OF ILLINOIS)
10 done here, Mr. Eby.	10, et al.) Plaintiffs,)
11 BY MR. WELLS:	11 vs.)
12 Q. Before we wrap up, I do want to express	12 JAY ROBERT "JB" PRITZKER,) Et al.)
13 my appreciation for your participation today. I	13 Defendants.)
14 think it's been a very helpful conversation to	14 I, JEFFREY EBY, state that I have
15 understand your testimony.	15 read the foregoing transcript of the testimony given by me at my deposition on the 18th day of
16 In looking back on the testimony	16 July, 2024, and that said transcript constitutes a true and correct record of the testimony given by
17 that you've given today, are there any answers or	17 me at said deposition except as I have so indicated on the errata sheet provided herein.
18 anything you wish to amend?	18
19 MR. BRADY: Objection. Vague. Compound.	19
20 THE WITNESS: No.	JEFFREY EBY 20
21 MR. WELLS: I don't have any further questions	No corrections (Please initial)
22 at this time.	22 SUBSCRIBED AND SWORN to Before me this day
 22 at this time. 23 THE WITNESS: May I ask you a question? 24 MR. BRADY: No. 	22 SUBSCRIBED AND SWORN to Before me this day 23 Of, 20 24

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	Page 310	
1 STATE OF ILLINOIS)	Č	
) SS: 2 COUNTY OF COOK)		
3 I,Deborah A. Duffy, CSR, RPR, do hereby		
certify that JEFFREY EBY was duly sworn by me to		
testify the whole truth, and that the foregoing		
deposition was recorded stenographically by me and		
was reduced to computerized transcript under my		
direction, and that the said deposition constitutes		
a true record of the testimony given by said		
witness.		
I further certify that the reading and		
signing of the deposition was not waived, and that		
the deposition was submitted to SEAN BRADY,		
 plaintiff's counsel, for signature. Pursuant to Rule 30(e) of the Federal Rules of Procedure, if 		
deponent does not appear or read and sign the		
deposition within 30 days, the deposition may be		
used as fully as though signed, and this		
certificate will then evidence such failure to		
appear as the reason for signature not being		
obtained.		
I further certify that I am not a relative or		
employee or attorney or counsel of any of the		
parties, or a relative or employee of such attorney		
or counsel, or financially interested directly or		
indirectly in this action.		
IN WITNESS WITCHEOF I have because a structure		
IN WITNESS WHEREOF, I have hereunto set my		
hand this 9th day of August, A.D. 2024.		
alsonah d. Duffy		
"1		
Deborah A. Duffy, CSR, RPR		
Illinois CSR License 084-002516		
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[poor - preservation]

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[preserve - prone]

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[pronounced - quality]

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[recoil - reliably]

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Federal Rules of Civil Procedure

Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
(A) to review the transcript or recording; and
(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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