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10 IN THE UNITED STATES DISTRICT COURT
 11 FOR THE CENTRAL DISTRICT OF CALIFORNIA
 12 SOUTHERN DIVISION
 13

14
 15 **STEVEN RUPP; STEVEN
 16 DEMBER; CHERYL JOHNSON;
 17 MICHAEL JONES;
 18 CHRISTOPHER SEIFERT;
 19 ALFONSO VALENCIA; TROY
 20 WILLIS; and CALIFORNIA RIFLE
 21 & PISTOL ASSOCIATION,
 22 INCORPORATED,**

Plaintiffs,

v.

23 **ROB BONTA, in his official capacity
 24 as Attorney General of the State of
 25 California; and DOES 1-10,**

Defendants.

Case No. 8:17-cv-00746-JLS-JDE

**DEFENDANT’S COMBINED
 OPPOSITION TO PLAINTIFFS’
 MOTIONS TO EXCLUDE
 TESTIMONY UNDER FEDERAL
 RULE OF EVIDENCE 702**

[DKT. 137–141]

Date: April 28, 2023
 Time: 10:30 a.m.
 Courtroom: 8A
 Judge: Hon. Josephine L. Staton
 Trial Date: None set
 Action Filed: April 24, 2017

26 ¹ Rob Bonta succeeded former Attorney General Xavier Becerra as the
 27 Attorney General of the State of California. Pursuant to Federal Rule of Civil
 28 Procedure 25(d), Attorney General Bonta, in his official capacity, is substituted as
 the defendant in this case.

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INTRODUCTION

The Court should deny the motions to exclude testimony of five of the Attorney General’s expert witnesses. In the course of supplemental expert discovery, the Attorney General served expert reports from twelve expert witnesses, and Plaintiffs seek to exclude under Federal Rule of Evidence 702 certain testimony of five of them: Ryan Busse, Saul Cornell, John J. Donohue, Louis Klarevas, and Lucy P. Allen. *See* Dkt. 137–141. Plaintiffs do not contest the qualifications of these experts, but instead raise various challenges to the admissibility of their testimony, none of which are availing. Contrary to Plaintiffs’ arguments, these experts provide testimony that is relevant under the text-and-history standard for Second Amendment claims adopted in *New York State Rifle & Pistol Ass’n, Inc. v. Bruen*, 142 S. Ct. 2111, 2126 (2022), and their testimony is reliable and otherwise admissible. Most of Plaintiffs’ arguments are premised on an overly narrow reading of *Bruen* and implicate questions of the credibility of the experts’ testimony, but that is not an appropriate basis for a Rule 702 challenge. The Court should deny Plaintiffs’ motions in their entirety.

BACKGROUND

In this action, Plaintiffs assert a Second Amendment claim challenging certain provisions of California’s Assault Weapons Control Act (“AWCA”) prohibiting the manufacture, distribution, transportation, importation, sale, and possession of rifles designated as “assault weapons.” *See* Cal. Penal Code §§ 30600, 30605. Plaintiffs challenge the AWCA’s restrictions applicable to rifles that qualify as assault weapons under the following provisions:

- California Penal Code section 30510(a) and California Code of Regulations, title 11, section 5499(a), which identify certain rifles as assault weapons by make and model;
- California Penal Code section 30515(a)(1)(A)–(C) and (E)–(F), which defines a semiautomatic, centerfire rifle as an assault weapon if it is

1 equipped with a pistol grip beneath the action, a thumbhole stock, a
2 folding or telescoping stock, a flash suppressor, or a forward pistol grip;
3 and

- 4 • California Penal Code section 30515(a)(3), which defines a
5 semiautomatic, centerfire rifle as an assault weapon if it is less than 30
6 inches in length. *See* 3d Am. Compl. ¶ 4 (Dkt. 56-1).

7 In July 2019, this Court granted the Attorney General’s motion for summary
8 judgment, upholding the challenged provisions of the AWCA under the Ninth
9 Circuit’s prior two-step framework for adjudicating Second Amendment claims.
10 Dkt. 108; *Rupp v. Becerra*, 401 F. Supp. 3d 978, 994 (C.D. Cal. 2019), *vacated and*
11 *remanded sub nom. Rupp v. Bonta*, 2022 WL 2382319 (9th Cir. June 28, 2022).²
12 The Court held at the first step that the challenged AWCA provisions do not burden
13 conduct protected by the Second Amendment because the regulated rifles are “like”
14 M16s that the Supreme Court has held may be banned in *District of Columbia v.*
15 *Heller*, 554 U.S. 570, 627 (2008). *Rupp*, 401 F. Supp. 3d at 986. Alternatively, the
16 Court held that the challenged provisions satisfy intermediate scrutiny. *Id.* at 993.

17 While the appeal of this judgment was pending, the U.S. Supreme Court
18 issued its decision in *Bruen*, replacing the two-step framework with a standard
19 “rooted in the Second Amendment’s text, as informed by history.” 142 S. Ct. at
20 2127. Following the issuance of *Bruen*, on June 28, 2022, the Ninth Circuit sua
21 sponte vacated this Court’s prior judgment and remanded the case “for further
22 proceedings consistent with” *Bruen*. *Rupp*, 2022 WL 2382319, at *1; 9th Cir.
23 No. 19-56004, Dkt. 71. This Court then issued a Scheduling Order providing for
24 supplemental expert discovery. Dkt. 131 at 2; Dkt. 134 at 2. During the course of
25

26
27 ² The Court also dismissed with prejudice Plaintiffs’ claims under the Due
28 Process and Takings Clauses. *Rupp*, 401 F. Supp. 3d at 984.

1 supplemental discovery, the parties designated several supplemental expert
2 witnesses.

3 On January 6, 2023, the Attorney General served 11 supplemental expert
4 reports of historians with expertise on 18th and 19th century firearms and firearms
5 regulation (Saul Cornell, Brennan Rivas, and Michael Vorenberg); a historian with
6 expertise on the history of murder in the United States (Randolph Roth); a political
7 scientist who has focused his research on the history of firearms and weapons
8 regulation in the United States (Robert Spitzer); a linguist who has used corpus
9 linguistics to determine the original public meaning of the terms used in the Second
10 Amendment at the time it was ratified (Dennis Baron); social scientists who have
11 studied the effects of assault weapons in mass shootings and the efficacy of efforts
12 to regulate them (John Donohue and Louis Klarevas); an economist who has
13 studied the defensive use of firearms and the effects of assault weapons in mass
14 shootings (Lucy Allen); a firearms industry expert with knowledge of the function
15 and marketing of AR-platform rifles (Ryan Busse); and a retired Marine colonel
16 who has extensive experience with the functionality and capabilities of certain
17 small arms, including the M16 rifle, M4 carbine, and AR-platform rifle (Craig
18 Tucker).

19 On February 3, 2023, Plaintiffs served five supplemental rebuttal expert
20 reports. In response, on February 24, 2023, the Attorney General served
21 supplemental sur-rebuttal expert reports of several of his supplemental expert
22 witnesses (Lucy Allen, Ryan Busse, Louis Klarevas, Randolph Roth, Craig Tucker,
23 and Michael Vorenberg), as well as a sur-rebuttal report of a historian with
24 expertise on firearms from the 17th, 18th, and 19th centuries (Kevin Sweeney).

25 Plaintiffs deposed only one of the Attorney General's supplemental expert
26 witnesses, Col. (Ret.) Craig Tucker, and expert discovery closed on March 17,
27 2023. Plaintiffs then filed five motions to exclude testimony. Dkts. 137–141.
28

1 Under the current scheduling order, dispositive motions are due by May 26, 2023.
2 Dkt. 134 at 2.

3 **LEGAL STANDARD**

4 Federal Rule of Evidence 702 permits expert testimony from a witness who is
5 “qualified as an expert by knowledge, skill, experience, training, or education.”
6 Expert witness testimony is admissible if it will assist the trier of fact in
7 determining a fact at issue, is based on sufficient facts or data, and is the product of
8 reliable principles and methods; and if the expert has reliably applied the principles
9 and methods to the facts of the case. Fed. R. Evid. 702. This inquiry is a “flexible
10 one.” *Primiano v. Cook*, 598 F.3d 558, 564 (9th Cir. 2010) (citing *Daubert v.*
11 *Merrell Dow Pharmaceuticals, Inc.*, 509 U.S. 579, 592–94 (1993)). Under
12 *Daubert*, the role of the district court is that of “a gatekeeper, not a fact finder.” *Id.*
13 at 565 (quotation marks omitted).

14 Though *Daubert* applies to proceedings not involving a jury, “the *Daubert*
15 gatekeeping obligation is less pressing in connection with a bench trial.” *Volk v.*
16 *United States*, 57 F. Supp. 2d 888, 896 n.5 (N.D. Cal. 1999).

17 **ARGUMENT**

18 Plaintiffs’ motions to exclude certain testimony of five of the Attorney
19 General’s expert witnesses should be denied because the challenged testimony is
20 relevant under the new *Bruen* standard, reliable, and otherwise admissible under the
21 federal rules of evidence.³

22
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26 _____
27 ³ Plaintiffs do not seek to exclude the testimony of Robert Spitzer, Brennan
28 Rivas, Michael Vorenberg, Dennis Baron, Randolph Roth, Kevin Sweeney, or
Craig Tucker.

1 **I. THE CHALLENGED EXPERT WITNESSES PROVIDE TESTIMONY THAT IS**
2 **RELEVANT UNDER *BRUEN*'S TEXT-AND-HISTORY STANDARD.**

3 The testimony of the Attorney General's expert witnesses is relevant under the
4 new *Bruen* standard. Plaintiffs argue that the testimony of Ryan Busse, John
5 Donohue, Louis Klarevas, and Lucy Allen is not relevant to this case, now that the
6 Supreme Court has abrogated the two-step framework.⁴ But in so arguing,
7 Plaintiffs misstate what *Bruen* requires.

8 In *Bruen*, the Supreme Court held that New York's "proper cause"
9 requirement for concealed-carry licenses violated the Second Amendment. 142 S.
10 Ct. at 2134–56. The Court also announced a new standard for adjudicating Second
11 Amendment claims, one "centered on constitutional text and history." *Id.* at 2128–
12 29. Under this text-and-history approach, courts must first determine that "the
13 Second Amendment's plain text covers an individual's conduct," *id.* at 2129–30—
14 i.e., that the challenged regulation prevents law-abiding citizens from "keep[ing]"
15 or "bear[ing]" protected "Arms," U.S. Const. amend. II. If it does, "the
16 Constitution presumptively protects that conduct," and "[t]he government must then
17 justify its regulation by demonstrating that it is consistent with the Nation's
18 historical tradition of firearm regulation." *Bruen*, 142 S. Ct. at 2130. To satisfy
19 this burden, the government must identify a "well-established and representative
20 historical *analogue*"—not a "historical *twin*" or "dead ringer"—to the challenged
21 law, which is "relevantly similar" according to "two metrics": "how and why the
22 regulations burden a law-abiding citizen's right to armed self-defense." *Id.* at 2133.

23
24 _____
25 ⁴ Plaintiffs do not appear to argue that the testimony of Saul Cornell is
26 irrelevant under *Bruen*. See Mem. of P. & A. in Supp. of Pls.' Mot. to Exclude
27 Portions of the Testimony of Def.'s Expert Witness Saul Cornell under Fed. R.
28 Evid. 702 ("Cornell Mot.") (Dkt. 138-1). There can be no doubt that his testimony
concerning the history of firearms regulation in the United States is relevant under
Bruen.

1 Thus, the historical comparator must have “impose[d] a comparable burden on the
2 right of armed self-defense” that is also “comparably justified.” *Id.*

3 Contrary to Plaintiffs’ characterization of the decision, *Bruen* did not adopt a
4 history-only test. Plaintiffs mistakenly argue in several of their motions that “the
5 only question that this Court must resolve post [*Bruen* is] whether the State can
6 show a well-subscribed regulatory tradition from the Founding Era that is
7 sufficiently analogous to the challenged statutes.”⁵ That is not the test. *Bruen*
8 requires the government to justify a challenged law with history and tradition only
9 if the law is first determined to burden conduct covered by the “plain text” of the
10 Second Amendment. *See Defense Distributed v. Bonta*, 2022 WL 15524977, at *5
11 (C.D. Cal. Oct. 21, 2022) (“Much as [the plaintiff] would like to move history and
12 tradition forward in the course of relevant analysis under *Bruen*, its attempt does
13 not survive a careful, and intellectually-honest, reading of that decision.”).⁶ In fact,

14
15 ⁵ Mem. of P. & A. in Supp. of Pls.’ Mot. to Exclude the Testimony of Def.’s
16 Expert Witness Ryan Busse under Fed. R. Evid. 702 (“Busse Mot.”) (Dkt. 137-1)
17 at 2; Mem. of P. & A. in Supp. of Pls.’ Mot. to Exclude the Testimony of Def.’s
18 Expert Witness Louis Klarevas under Fed. R. Evid. 702 (“Klarevas Mot.”)
19 (Dkt. 140-1) at 2; Mem. of P. & A. in Supp. of Pls.’ Mot. to Exclude the Testimony
20 of Def.’s Expert Witness Lucy Allen under Fed. R. Evid. 702 (“Allen Mot.”)
21 (Dkt. 141-1) at 2.

22 ⁶ Courts have generally acknowledged that *Bruen* requires distinct textual
23 and historical analyses, respectively, in evaluating gun-safety laws under the
24 Second Amendment. *See, e.g., Nat’l Rifle Ass’n v. Bondi*, 61 F.4th 1317, 1321
25 (11th Cir. 2023) (“[W]e read *Bruen* as articulating two analytical steps.”), *pet. for*
26 *en banc reh’g filed*; *Ocean State Tactical, LLC v. State of Rhode Island*, 2022 WL
27 17721175, at *11–15 (D.R.I. Dec. 14, 2022) (holding at the textual stage of the
28 *Bruen* analysis that large-capacity magazines are accessories and not protected
“Arms”), *appeal docketed* No. 23-1072 (1st Cir. Jan. 18, 2023); *Or. Firearms*
Fed’n, Inc. v. Brown, ___ F. Supp. 3d ___, 2022 WL 17454829, at *9 (D. Or. Dec. 6,
2022) (holding at the textual stage of the *Bruen* analysis that large-capacity
magazines are not necessary to operate a firearm). And at the textual stage of the
inquiry, courts have generally assigned the burden of persuasion to the party
challenging a law under the Second Amendment. *See, e.g., Ocean State Tactical,*

1 Plaintiffs acknowledge in one of their motions that *Bruen*'s text-and-history
2 standard involves *two* distinct "questions," including a threshold inquiry into
3 "whether the banned firearms are protected 'arms' under the Second Amendment."
4 Mem. of P. & A. in Supp. of Pls.' Mot. to Exclude the Testimony of Def.'s Expert
5 Witness John J. Donohue under Fed. R. Evid. 702 ("Donohue Mot.") (Dkt. 139-1)
6 at 2.

7 In addition, although *Bruen* rejected "interest balancing," which took into
8 account the public-safety rationale for a challenged law in assessing its tailoring,
9 142 S. Ct. at 2131, the *Bruen* standard does not require the courts to blind
10 themselves to present-day justifications and realities. *Bruen* requires courts to
11 account for contemporary public-safety rationales in at least two respects at the
12 historical stage of the inquiry. First, *Bruen* requires a "more nuanced" approach
13 when the law addresses "regulatory challenges posed by firearms today," including
14 "unprecedented societal concerns or dramatic technological changes." *Id.* at 2131–
15 32. Second, in comparing the challenged law to the historical analogues, courts are
16 required to determine whether the burden imposed by the challenged law is
17 "comparably justified." *Id.* at 2133; *see, e.g., Del. State Sportsmen's Ass'n v. Del.*
18 *Dep't of Safety & Homeland Sec.*, __ F. Supp. 3d __, 2023 WL 2655150, at *13 (D.
19 Del. Mar. 27, 2023) (explaining that "pressing public safety concerns" posed by
20 assault weapons are relevant under *Bruen* and do not translate into impermissible
21 "means-ends scrutiny" and holding that restrictions on "assault long guns" are
22 comparably justified "to ensure the safety of Delawareans" (citation omitted)),

23 _____
24 *LLC*, 2022 WL 17721175, at *12 ("Although *it is their burden* to show that large-
25 capacity magazines fall within the purview of the Second Amendment, *the plaintiffs*
26 offer no expert opinion on the meaning of the word 'Arms.'" (emphasis added));
27 *Or. Firearms Fed'n*, 2022 WL 17454829, at *9 (holding that "*Plaintiffs have not*
28 *shown*, at this stage, that magazines specifically capable of accepting more than ten
rounds of ammunition are necessary to the use of firearms for self-defense"
(emphasis added)).

1 *appeal filed; id.* at *13 n.16 (noting that “public safety concerns motivating the
2 challenged regulations are also relevant to determining whether the regulations
3 ‘implicat[e] unprecedented societal concerns or dramatic technological changes’”
4 (quoting *Bruen*, 142 S. Ct. at 2132)); *Or. Firearms Fed’n*, 2022 WL 17454829, at
5 *14 (noting that the court “may consider the public safety concerns of today” in
6 determining whether large-capacity magazine restrictions are “comparably
7 justified”). Thus, contemporary public-safety concerns remain relevant to
8 determining whether a challenged law warrants a “more nuanced” historical
9 analysis and is comparably justified.

10 The challenged expert testimony is relevant at both stages of the *Bruen*
11 analysis. *See Elosu v. Middlefork Ranch Inc.*, 26 F.4th 1017, 1024 (9th Cir. 2022)
12 (“Expert opinion testimony is relevant if the knowledge underlying it has a valid
13 connection to the pertinent inquiry.” (citation and quotation marks omitted)).

14
15 **A. Ryan Busse’s Expert Testimony Concerning Assault-Weapon
Features Is Relevant.**

16 Ryan Busse is an expert on the firearms industry and has extensive experience
17 with the firearms, parts, and accessories regulated under the AWCA. Mr. Busse
18 spent nearly three decades building a career in the firearms industry. Suppl. Expert
19 Report & Decl. of Ryan Busse (“Busse Report”) (Dkt. 137-2, Ex. 1) ¶ 2. During
20 that time, he “studied and built sales programs that relied on understanding the
21 technical nature of most firearms available in the U.S. market, including AR-
22 platform and other types of rifles,” and “played an integral role in building one of
23 the largest firearms companies in the United States.” *Id.* Plaintiffs acknowledge
24 Mr. Busse’s extensive experience in the firearms industry, noting his “career
25 experience working for an arms maker.” Busse Mot. at 4. His “specialized
26 knowledge and experience can serve as the requisite ‘facts or data’ on which [he]
27 render[s] an opinion.” *Elosu*, 26 F.4th at 1024.
28

1 Mr. Busse provides expert testimony about semiautomatic, centerfire rifles
2 and the features and accessories that can qualify them as assault weapons under the
3 AWCA. Busse Report ¶¶ 11–21. Mr. Busse explains that none of the prohibited
4 features, parts, or accessories—including a pistol grip on a rifle, a thumbhole stock,
5 a flash suppressor on the muzzle of a rifle, a forward pistol grip, or a shortened
6 barrel that would render the rifle less than 30 inches in length—is necessary to
7 operate a semiautomatic, centerfire rifle for self-defense. *Id.* ¶¶ 12–15, 17–18, 21,
8 24.⁷ Plaintiffs do not argue that Mr. Busse’s testimony should be excluded due to
9 inadequate qualifications. Instead, they argue that his expert opinions are not
10 relevant under *Bruen*. They are wrong.

11 Plaintiffs seek to exclude Mr. Busse’s testimony because he does not address
12 the historical tradition of firearms regulation. Busse Mot. at 3. True, Mr. Busse
13 does not provide historical testimony, but he addresses several issues that remain
14 relevant under *Bruen*, including whether the regulated assault-weapon
15 configurations and accessories are covered by the Second Amendment. *See Bruen*,
16 142 S. Ct. at 2134; *Heller*, 554 U.S. at 627. This inquiry into whether a regulated
17 weapon, device, or accessory is protected by the Second Amendment occurs at the
18 textual stage of the *Bruen* standard. In *Bruen*, before proceeding to the historical
19 analysis, the Court concluded that the handguns the plaintiffs wished to carry in
20 public “are weapons ‘in common use’ today for self-defense.” *Bruen*, 142 S. Ct.
21 2134 (citing *Heller*, 554 U.S. at 627, and *Caetano v. Massachusetts*, 577 U.S. 411,
22 411–12 (2016)). As this Court has already observed, *Heller* identified the M16
23 “and the like,” which “are most useful in military service,” as weapons that fall
24 outside the scope of the Second Amendment. *Rupp*, 401 F. Supp. 3d at 986–87
25 (quoting *Heller*, 554 U.S. at 627). This analysis was not affected by *Bruen*. *See*

26
27 ⁷ In addition to his supplemental opening expert report, Mr. Busse submitted
28 a sur-rebuttal expert report. Plaintiffs have only submitted Mr. Busse’s opening
report for the Court’s review and do not appear to challenge his sur-rebuttal report.

1 *Bruen*, 142 S. Ct. at 2154 (Alito, J., concurring) (noting that *Bruen* did not “decide
2 anything about the kinds of weapons that people may possess”). Mr. Busse
3 provides testimony regarding the attributes and functions of semiautomatic,
4 centerfire rifles and the features and accessories that qualify such rifles as assault
5 weapons under the AWCA, which is directly relevant to showing that those
6 weapons and features are not protected “Arms” under the Second Amendment at
7 the textual stage of the *Bruen* standard.⁸

8
9 **B. Professor John Donohue’s Expert Testimony Concerning the
Lethality of Assault Weapons in Mass Shootings Is Relevant.**

10 Professor John Donohue is a professor at Stanford Law School and an
11 economist whose scholarship uses empirical analysis to analyze the impact of laws
12 and public policy. Suppl. Expert Report & Decl. of John J. Donohue (“Donohue
13 Report”) (Dkt. 139-2, Ex. 1) ¶¶ 1–6 & Ex. A. He has published extensively on the
14 efficacy of gun-safety measures.⁹ Professor Donohue previously submitted an
15 expert report and declaration in this case, discussing the concentration of gun
16 ownership in the United States, the dangers of assault weapons, and the rise in mass
17 shootings. *See* Dkt. 76-1 (Expert Report of John J. Donohue) ¶¶ 18–116; *Rupp*, 401
18 F. Supp. 3d at 989 (citing Professor Donohue’s initial report). In his supplemental
19 report, Professor Donohue updates his opinions concerning mass shootings during
20 the last two decades in the United States, including the significant increases in the
21 number of such events, the number of fatalities, and the lethality of the weapons

22
23 ⁸ In his sur-rebuttal expert report, Mr. Busse also provides background on the
24 militarized marketing of rifles that qualify as assault weapons under the AWCA,
25 but, as noted, Plaintiffs do not appear to challenge the testimony contained in
Mr. Busse’s sur-rebuttal report. *Supra* note 7.

26 ⁹ *See* RAND, Effects of Concealed-Carry Laws on Violent Crime, Jan. 10,
27 2023, [https://www.rand.org/research/gun-policy/analysis/concealed-carry/violent-](https://www.rand.org/research/gun-policy/analysis/concealed-carry/violent-crime.html)
28 [crime.html](https://www.rand.org/research/gun-policy/analysis/concealed-carry/violent-crime.html) (citing numerous studies authored by Professor Donohue in concluding
that right-to-carry laws increase overall homicides and firearm homicides).

1 used. Donohue Report ¶¶ 14–27 & figs. 1, 2. Professor Donohue’s supplemental
2 report also contains an original econometric analysis of mass shooting data from
3 1982 through 2019, concluding that state and federal restrictions on assault
4 weapons and large-capacity magazines are associated with statistically significant
5 decreases in per capita rates of deaths and casualties from mass shootings, which he
6 further supports by discussing examples of comparable legislative reforms from
7 outside of the U.S. *Id.* ¶¶ 28–31 & tbl, 1.

8 Rather than challenge Professor Donohue’s expertise, Plaintiffs argue that his
9 testimony has “nothing to do” with the questions relevant under *Bruen*. Donohue
10 Mot. at 2. Again, they claim that in order to provide relevant testimony here,
11 Professor Donohue would have to be “a legal historian, or a Second Amendment or
12 firearms historian, []or an expert on the laws of the early Republic.” *Id.* at 5.¹⁰
13 They are wrong. Though Professor Donohue does not address particular assault-
14 weapon configurations or the history of weapons regulations in the United States,
15 Donohue Mot. at 5–6, he provides testimony about the justifications of assault-
16 weapon restrictions like the AWCA, which is relevant to the Court’s historical
17 analysis under *Bruen*.

18
19 **C. Professor Louis Klarevas’s Expert Testimony Concerning Mass Shootings Is Relevant.**

20 Professor Louis Klarevas is a security policy analyst and research professor at
21 Teachers College, Columbia University, in New York. Suppl. Expert Report &
22 Decl. of Louis Klarevas (“Klarevas Report”) (Dkt. 140-2, Ex. 1) ¶ 2. He is the

23
24 ¹⁰ While laws enacted during the early Republic period (i.e., around the time
25 that the Second Amendment was ratified) are relevant to assessing constitutional
26 challenges to state and local gun-safety laws, “Reconstruction Era historical
27 sources” enacted around the time that the Fourteenth Amendment was ratified “are
28 the most relevant” because they “reflect the public understanding of the right to
keep and bear arms at the very time the states made that right applicable to the state
governments.” *Nat’l Rifle Ass’n*, 61 F.4th at 1321.

1 author of *Rampage Nation*, a comprehensive study of high-fatality mass shootings
2 in the United States, and he has conducted extensive, peer-reviewed research into
3 the efficacy of gun-safety interventions, including restrictions on large-capacity
4 magazines. *Id.* ¶¶ 2–5.¹¹ Professor Klarevas provided expert testimony in *Miller v.*
5 *Bonta*, No. 3:19-cv-01537, a Second Amendment case challenging the AWCA in
6 the Southern District of California, and he provides similar expert testimony in this
7 action.

8 Professor Klarevas’s expert report provides testimony that is directly relevant
9 to this Court’s evaluation of the AWCA under *Bruen*.¹² First, he testifies that
10 assault weapons comprise a small fraction of America’s total firearms in
11 circulation, which is far outpaced by their representation in mass shootings.
12 Klarevas Report ¶ 15. This testimony is relevant to whether those firearms are in
13 common use for self-defense and thus covered by the plain text of the Second
14 Amendment. Second, focusing on extremely high-fatality shootings involving ten
15 or more victims killed (excluding group-perpetrated killings like mob violence,
16 riots, and battles), Professor Klarevas determined that no such incidents occurred in
17 United States history until after World War II. *Id.* ¶¶ 19–20 & tbl. 5. When they
18 began to occur in 1949, they remained relatively infrequent, with a cluster of
19 incidents in the early 1980s, followed by a dramatic increase in the number of
20 double-digit-fatality mass shootings after the expiration of the federal assault

21
22 ¹¹ See Louis Klarevas et al., *The Effect of Large-Capacity Magazine Bans on*
23 *High-Fatality Mass Shootings*, 109 Am. J. of Pub. Health 1754 (2019), available at
24 <https://ajph.aphapublications.org/doi/full/10.2105/AJPH.2019.305311>. This
25 “seminal study” on the impact of large-capacity magazine laws (which are often
26 enacted in conjunction with assault weapon restrictions) has had a “large impact”
27 on the field. Lori Ann Post & Maryann Mason, *The Perfect Gun Policy Study in a*
28 *Not So Perfect Storm*, 112 Am. J. Pub. Health 1707, 1707 (2022),
<https://ajph.aphapublications.org/doi/full/10.2105/AJPH.2022.307120>.

¹² Professor Klarevas also submitted a sur-rebuttal expert report, which
Plaintiffs do not appear to challenge.

1 weapons ban in 2004, when 20 out of the 30 double-digit-fatality mass shootings in
2 American history occurred. *Id.* ¶¶ 20–23. These social developments, born of 21st-
3 century advances in firearms technology, bear directly on *Bruen*’s questions of
4 whether a more nuanced analogical approach is called for due to “unprecedented
5 societal concerns” and “dramatic technological advances,” *Bruen*, 142 S. Ct. 2131–
6 32, and whether assault-weapon restrictions are comparably justified to historical
7 analogues. Professor Klarevas’s report also describes the disturbing trend of rising
8 mass shootings, the role of assault weapons in contributing to greater numbers of
9 deaths and injuries in mass shootings, and the efficacy of assault weapon
10 restrictions in reducing the incidence and lethality of mass shootings. *Id.* ¶¶ 13–23,
11 28–39. This testimony supports the present-day justifications for assault-weapon
12 restrictions like the AWCA, which is part of *Bruen*’s historical analysis.
13 Accordingly, Professor Klarevas’s testimony is relevant to both the textual and
14 historical stages of the *Bruen* analysis.

15
16 **D. Lucy Allen’s Testimony Concerning Defensive Gun Use and
Mass Shootings Is Relevant.**

17 Lucy Allen is an economist, a Managing Director of NERA Economic
18 Consulting, a member of NERA’s Securities and Finance Practice, and Chair of
19 NERA’s Product Liability and Mass Torts Practice. Suppl. Expert Report and
20 Decl. of Lucy P. Allen (“Allen Report”) (Dkt. 141-2, Ex. 1) ¶ 3. She holds an A.B.
21 from Stanford University, an M.B.A. from Yale University, and M.A. and M. Phil.
22 degrees in Economics, also from Yale University. *Id.* ¶ 5. Prior to joining NERA,
23 Ms. Allen served on the Council of Economic Advisers for both President George
24 H.W. Bush and President Bill Clinton. *Id.* She has provided expert statistical
25 analysis on defensive gun uses and mass shootings in numerous Second
26 Amendment cases, including an expert report in the pre-remand proceedings in this
27 case. Dkt. 76-6; *see Rupp*, 401 F. Supp. 3d at 991 (crediting Ms. Allen’s initial
28

1 report). Under *Bruen*'s text-and-history standard, Ms. Allen's testimony is relevant
2 at both stages of the analysis.¹³

3 Consistent with her prior expert report, Ms. Allen's supplemental expert report
4 explains that individuals who use firearms in self-defense do not fire more than two
5 rounds on average. Allen Report ¶¶ 13, 20. Ms. Allen also examined the Heritage
6 Foundation's "Defensive Gun Uses in the U.S." database and determined that
7 individuals rarely use rifles for self-defense—let alone semiautomatic, centerfire
8 rifles or such rifles that qualify as assault weapons under the AWCA. *Id.* ¶¶ 23–28.
9 This testimony is relevant to whether rapid-fire semiautomatic rifles with military
10 features are needed for lawful self-defense and thus qualify as protected "Arms" at
11 the textual stage of the *Bruen* analysis and, separately, whether the AWCA imposes
12 a comparable burden on the right to armed self-defense at the historical stage.
13 Finally, Ms. Allen analyzed the use of assault weapons in mass shootings, including
14 incidents identified by two additional sources from those used in her prior report
15 (the Washington Post and The Violence Project). *Id.* ¶ 29. Consistent with her
16 prior analysis, and similar studies, Ms. Allen found that casualties and fatalities
17 were higher on average in mass shootings involving assault weapons, and
18 particularly assault weapon rifles, than those without such weapons. *Id.* ¶¶ 36–37,
19 42. This testimony was previously credited by this Court, *see Rupp*, 401 F. Supp.
20 3d at 991, and it remains relevant to establishing the present-day justifications of
21 the AWCA under *Bruen*.

22
23 **II. THE CHALLENGED EXPERT TESTIMONY IS RELIABLE AND OTHERWISE
ADMISSIBLE.**

24 In addition to raising relevance objections to the challenged expert testimony
25 under *Bruen*—all of which are unavailing—Plaintiffs also claim that certain expert
26

27 ¹³ Ms. Allen also submitted a supplemental sur-rebuttal report, which
28 Plaintiffs do not appear to challenge.

1 testimony is unreliable, speculative, biased, or otherwise inadmissible. None of
2 these arguments has merit.

3
4 **A. Plaintiffs’ Various Arguments About Reliability, Bias, and
Credibility Are Unavailing.**

5 Plaintiffs’ motions raise a variety of arguments related to the reliability and
6 credibility of the challenged expert witnesses, but none of these arguments warrants
7 exclusion of these experts under Federal Rule of Evidence 702. Under *Daubert*,
8 expert opinion testimony is reliable “if the knowledge underlying it has a reliable
9 basis in the knowledge and experience of the relevant discipline.” *Elosu*, 26 F.4th
10 at 1024 (quotation marks omitted). And as a general matter, arguments questioning
11 an expert’s impartiality or credibility go to “the weight of the [expert’s] testimony,”
12 “not its admissibility.” *Alaska Rent-A-Car, Inc. v. Avis Budget Grp., Inc.*, 738 F.3d
13 960, 969–70 (9th Cir. 2013). Plaintiffs’ objections regarding reliability, bias, and
14 credibility are therefore not appropriate bases for a Rule 702 motion.

15 **1. Ryan Busse**

16 Plaintiffs claim that Ryan Busse’s testimony about the dangers of centerfire
17 AR-platform rifles is “misleading,” including a lengthy discussion of their view that
18 the .223 Remington (and 5.56 NATO) cartridge commonly chambered in AR-
19 platform rifles is “one of the weaker centerfire rifle cartridges.” Busse Mot. at 5–6.
20 As Plaintiffs acknowledge, however, Mr. Busse’s testimony concerns the *velocity*
21 at which these rounds can be fired by these weapons and not just the caliber of the
22 rounds. *Id.* at 5 (quoting Busse Report ¶ 11).¹⁴ If Plaintiffs believe Mr. Busse has

23
24 ¹⁴ Mr. Busse’s opinions concerning .223 ammunition are supported by other
25 expert testimony in this case and other sources. *See, e.g., The Blast Effect: This Is*
26 *How Bullets from an AR-15 Blow the Body Apart*, Wash. Post, Mar. 27, 2023,
27 [https://www.washingtonpost.com/nation/interactive/2023/ar-15-damage-to-human-](https://www.washingtonpost.com/nation/interactive/2023/ar-15-damage-to-human-body/)
28 [body/](https://www.washingtonpost.com/nation/interactive/2023/ar-15-damage-to-human-body/) (“The calculation that a .223 round fired from an AR-15 can reach speeds of
up to six football fields in a second was made using a 55 grain .223 Remington full
metal case round fired at a horizontal trajectory. The muzzle velocity of this round

1 “le[ft] out” facts that are relevant to this case (he has not), *id.*, they are free to point
2 that out to the Court in merits briefing. *See Elosu*, 26 F.4th at 1024 (“[S]haky but
3 admissible evidence is to be attacked by cross examination, contrary evidence, and
4 attention to the burden of proof, not exclusion.” (quoting *Primiano*, 598 F.3d at
5 564); *SPS Techs., LLC v. Briles Aerospace, Inc.*, 2021 WL 4913509, at *3 (C.D.
6 Cal. Sept. 8, 2021) (“Arguments that an expert’s testimony is based on facts
7 contrary to the actual record are more appropriate for impeachment than
8 inadmissibility.” (internal quotation marks and citation omitted)). While credibility
9 may factor into the *weight* given to Mr. Busse’s testimony at some later point, it
10 does not affect the *admissibility* of his testimony, especially where such testimony
11 is clearly founded in his professional expertise. And Plaintiffs’ claim that Mr.
12 Busse has a “bias against Second Amendment rights,” Busse Mot. at 6, is belied by
13 his lifelong use and study of firearms, Busse Report ¶ 2, and is not a proper basis
14 for excluding his testimony. *See, e.g., Elosu*, 26 F.4th at 1028 (holding that
15 “concerns” that an expert report “was not sufficiently corroborated” or that an
16 expert “was biased towards [a party], financially or otherwise go to the weight
17 of the testimony and its credibility, not its admissibility” (internal quotation marks
18 and citation omitted)).

19 2. Professor Donohue

20 Plaintiffs challenge the reliability of Professor Donohue’s expert report,
21 arguing that two statements in his report lack a factual predicate. One statement is
22 Professor Donohue’s opinion that mass shootings in Parkland, Florida and Uvalde,
23 Texas, “where police delayed entering [a] school during a shooting,” “vividly
24 underscored how police responses to violence are impaired when the officers are
25 confronted by a shooter armed with an assault rifle.” Donohue Report ¶ 18.
26 Professor Donohue supports this opinion with a discussion of related academic
27

is 3,240 feet per second.”).

1 research concerning the “instrumentality effect” of the type and power of a weapon
2 used in a shooting.¹⁵ The other statement is Professor Donohue’s opinion that the
3 increased lethality of assault weapons warrants government regulation, *id.* ¶ 26,
4 which is predicated on his original econometric analysis and related conclusions
5 that state and federal restrictions on assault weapons and large-capacity magazines
6 are associated with statistically significant decreases in per capita rates of deaths
7 and casualties from mass shootings. *Id.* ¶¶ 28–30 & tbl. 1. Neither example cited
8 by Plaintiffs lacks foundation.

9 Plaintiffs also appear to argue that Professor Donohue’s testimony is not
10 credible or impartial, characterizing his supplemental report as “screed” and noting
11 that the Delaware Chancery Court, in a derivative suit nearly two decades ago,
12 viewed his testimony as having “little value.” Donohue Mot. at 7 (quoting *In re*
13 *Walt Disney Co. Deriv. Litig.*, 907 A.2d 693, 742 (Del. Ch. 2005)). In that
14 securities case, Professor Donohue provided testimony that certain conduct
15 amounted to gross negligence or malfeasance, which the court discounted after
16 “weighing all of the evidence.” *In re Walt Disney Co. Deriv. Litig.*, 907 A.2d at
17 741. Notably, that court did not exclude Professor Donohue’s testimony. If
18 anything, Plaintiffs’ arguments are directed at the weight to be accorded to
19 Professor Donohue’s testimony, not its admissibility.

20 3. Professor Klarevas

21 Plaintiffs add boilerplate language about reliability to their motion to exclude
22 Professor Klarevas’s testimony, claiming that his opinions are “neither the product
23 of reliable principles and methods nor are they based on sufficient facts or data.”

24 ¹⁵ Professor Donohue’s assessment of the Uvalde shooting in his January 6,
25 2023 expert report was subsequently confirmed by reporting on law enforcement
26 reluctance to engage the shooter due to the shooter’s use of an AR-platform rifle.
27 See Zach Despart, “He Has a Battle Rifle”: Police Feared Uvalde Gunman’s AR-
28 [15](https://www.texastribune.org/2023/03/20/uvalde-shooting-police-ar-15/), Tex. Tribune, Mar. 20, 2023, <https://www.texastribune.org/2023/03/20/uvalde-shooting-police-ar-15/>.

1 Klarevas Mot. at 4 (citing Fed. R. Evid. 702). Plaintiffs fail to explain how
2 Professor Klarevas’s conclusions or methodology are unreliable, and their
3 arguments appear to be premised on their baseless relevance objections. Contrary
4 to Plaintiffs’ vague reliability objections, Professor Klarevas discloses the source
5 materials on which he relied to form his opinions about mass shootings, which
6 includes publicly available data compiled by The Violence Project and the Gun
7 Violence Archive. Klarevas Report ¶ 12 n.5; *id.*, Exs. B, C. Professor Klarevas
8 also relied on data from the National Shooting Sports Foundation to determine that
9 assault-weapon rifles are used disproportionately in mass shootings relative to their
10 ownership rates. *Id.* ¶ 15 n.6. He also describes in detail his methods for analyzing
11 this data, explaining definitions, time periods, and other assumptions underlying his
12 analysis; Plaintiffs can point to no issue with the clarity or correctness of these
13 methods, which amply satisfy the reliability standards of Federal Rule of Evidence
14 702. *See Kumho Tire Co. v. Carmichael*, 526 U.S. 137, 150–51 (1999) (noting that
15 traditional standards of scientific reliability do not apply to all forms of expert
16 testimony).

17 **4. Lucy Allen**

18 Plaintiffs claim that Lucy Allen’s testimony is not the product of reliable
19 principles and methods. Plaintiffs take issue with how Ms. Allen limited her
20 analysis of the number of rounds used in self-defense to existing sources of news
21 articles, given the absence of any systemically maintained records on this subject
22 and the obvious ethical limitations of ascertaining this information through
23 controlled experimentation. Allen Mot. at 6; *see also* Eugene Volokh,
24 *Implementing the Right to Keep and Bear Arms for Self-Defense: An Analytical*
25 *Framework and a Research Agenda*, 56 UCLA L. Rev. 1443, 1465 (2009) (“There
26 are no controlled experiments that can practically and ethically be run.”).
27 Plaintiffs’ claim that this limitation somehow renders all of her expert opinions
28 unreliable misapprehends the proper scope and basis of expert testimony. *See Gen.*

1 *Electric Co. v. Joiner*, 522 U.S. 136, 146 (1997) (“Trained experts commonly
2 extrapolate from existing data.”). Plaintiffs also contend that the sources of news
3 articles that Ms. Allen canvassed to determine how many shots are typically fired in
4 defensive situations—news articles compiled by the NRA in its “Armed Citizen”
5 database and the Factiva journalist database—are inherently unreliable because it is
6 unknown whether they include all defensive gun use incidents or whether Ms.
7 Allen searched them comprehensively. *Allen Mot.* 6–7.¹⁶ Setting aside the fact
8 that no single, complete catalogue of defensive gun uses exists and that Ms. Allen
9 disclosed in extensive detail her methodology in evaluating the collected data,
10 Plaintiffs’ objection “go[es] to the weight of the expert’s opinion, not the
11 admissibility.” *SPS Techs., LLC*, 2021 WL 4913509, at *2. In crediting similar
12 testimony of Ms. Allen in the pre-remand proceedings, this Court observed that
13 other courts have rejected similar reliability objections to her testimony. *See Rupp*,
14 401 F. Supp. 3d at 991 & n.9. As it was previously, Ms. Allen’s expert testimony is
15 reliable and admissible.

16
17 **B. Professor Saul Cornell’s Testimony About the History of
Firearms Regulation Is Admissible.**

18 The Court should deny Plaintiffs’ motion to exclude or strike certain portions
19 of the Supplemental Expert Report and Declaration of Saul Cornell (“Cornell
20 Report”) (Dkt. 138-2, Ex. 1). Professor Cornell is a historian and professor at
21 Fordham University and is a preeminent authority on the history of firearms
22 regulation. *Id.* ¶ 3 & Ex. 1. Plaintiffs do not contend that Professor Cornell is not a
23 proper expert in this case, nor could they; Professor Cornell’s credentials speak for
24 themselves. Instead, Plaintiffs contend that certain limited portions of his expert
25 report “consist of him opining on ultimate legal questions” or are outside his

26
27 ¹⁶ Interestingly, one of the Plaintiffs in this case, the California Rifle and
28 Pistol Association, is the California affiliate of the NRA, which Plaintiffs argue is
an unreliable source of stories depicting defensive gun uses.

1 expertise. Cornell Mot. at 4–5. As Plaintiffs’ cited authority makes clear, motions
2 to strike portions of an expert report “are strongly disfavored,” and Plaintiffs “must
3 carry a ‘formidable burden.’” *Barnes v. District of Columbia*, 289 F.R.D. 1, 6
4 (D.D.C. 2012) (citation omitted); Cornell Mot. at 4 n.1 (citing *Barnes*, 289 F.R.D.
5 1). Plaintiffs have failed to show that any portion of Professor Cornell’s expert
6 report should be struck.

7 Plaintiffs claim that nine paragraphs in Professor Cornell’s expert report—out
8 of a total of 61 paragraphs—include impermissible legal conclusions about relevant
9 Supreme Court opinions, including *Bruen*. Cornell Mot. at 4. It is true that
10 Professor Cornell discusses some Supreme Court opinions in his report, but he does
11 so merely to provide relevant background and context for his opinions about the
12 history of firearms regulation, including his discussion of numerous historical
13 analogues to the AWCA. *See SPS Techs., LLC*, 2021 WL 4913509, at *2 (“‘[A]
14 witness may properly be called upon to aid the [trier of fact] in understanding the
15 facts in evidence even though reference to those facts is couched in legal terms,’
16 where the witness’s references to the law are ‘ancillary’ to an ultimate issue in the
17 case.” (quoting *Hangarter v. Provident Life & Acc. Ins. Co.*, 373 F.3d 998, 1017
18 (9th Cir. 2004))). In paragraph 9 of his report, Professor Cornell repeats Justice
19 Kavanaugh’s statement regarding the “well established historical tradition of
20 prohibiting the carrying of dangerous and unusual weapons” as context for his
21 (non-legal) opinion that “the Second Amendment and its state constitutional
22 analogues at the time of their adoption in the Founding period forged an
23 indissoluble link between the right to keep and bear arms with the goal of
24 preserving the peace.” Cornell Report ¶ 9. Similarly, paragraphs 12 through 16
25 describe the historical inquiry discussed in *Bruen*, *Heller*, and *McDonald* as
26 background for the opinions stated in the following paragraphs. *See id.* ¶¶ 12–21.
27 Professor Cornell’s reference to “*Bruen*’s methodology” at the beginning of
28 paragraph 24 merely sets the stage for his opinion that there are “a series of myths

1 about guns and regulation” that “cloud legal discussions of American gun policy
2 and Second Amendment jurisprudence.” *Id.* ¶ 21. And paragraphs 60 and 61 do
3 not discuss legal standards at all. In short, none of Professor Cornell’s statements
4 constitute improper legal conclusions that “attempt to instruct the [Court] on the
5 law.” *SPS Techs., LLC*, 2021 WL 4913509, at *2 (quoting *United States v. Diaz*,
6 876 F.3d 1194, 1199 (9th Cir. 2017)).

7 In addition, Plaintiffs argue that eight other paragraphs in Professor Cornell’s
8 expert report exceed the scope of his expertise as a historian, even though those
9 paragraphs *do* “relate[] to history.” Cornell Mot. at 5. In Section 5, Professor
10 Cornell describes the history of assault-weapon regulation across the country,
11 beginning with the AWCA in 1989, and ties these regulations to the “long Anglo-
12 American tradition of limiting public access to weapons capable of provoking
13 terror.” Cornell Report ¶¶ 52–53. Professor Cornell goes on to describe the “well-
14 worn path” that firearms regulation has followed throughout American history:
15 “Technological innovation is only part of this equation. In addition, weapons must
16 also achieve sufficient market penetration to create a potential for criminal abuse.
17 At this point legislatures attempt to find a means to address the problem posed by
18 these weapons without trenching on constitutionally protected liberties.” *Id.* ¶ 54;
19 *see also id.* ¶ 58 (“[F]ocusing exclusively on technology and ignoring the social
20 history of these weapons, their popularity and potential for abuse, misses an
21 important point about the history of firearms technology and government
22 regulation. The history and tradition of arms regulation has always recognized that
23 weapons that had the ability to inspire *terrorem populi* is a legitimate justification
24 for regulation.”). This testimony fits squarely within Professor Cornell’s historical
25 expertise.

26 To the extent Professor Cornell cites underlying background facts about
27 assault weapons as a basis for his historical opinions, *see* Cornell Mot. at 5, it is
28 entirely proper for him to do so. If Plaintiffs believe any facts on which Professor

1 Cornell relies are incorrect, they are free to argue that his opinions are erroneous.
2 But Professor Cornell’s citation to underlying background facts—a practice
3 common in scholarship—does not render his opinions about the history of firearm
4 regulation inadmissible. *See SPS Techs., LLC*, 2021 WL 4913509, at *3
5 (“Arguments that an expert’s testimony is based on facts contrary to the actual
6 record are more appropriate for impeachment than inadmissibility.” (internal
7 quotation marks and citation omitted)). Plaintiffs have failed to show that any
8 portion of Professor Cornell’s expert report should be struck.

9 **CONCLUSION**

10 The Court should deny Plaintiffs’ motions to exclude any portion of the
11 testimony of Ryan Busse, Saul Cornell, John Donohue, Louis Klarevas, or Lucy
12 Allen.

13 Dated: April 7, 2023

Respectfully submitted,

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15 Attorney General of California
16 P. PATTY LI
17 Supervising Deputy Attorney
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19 ANNA FERRARI
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CERTIFICATE OF COMPLIANCE

The undersigned, counsel of record for Defendant Rob Bonta, in his official capacity as Attorney General of California, certifies that this brief contains 6,862 words, which complies with the word limit of L.R. 11-6.1.

Dated: April 7, 2023

Respectfully submitted,

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CERTIFICATE OF SERVICE

Case Name: *Rupp, et al. v. Bonta, et al.* Case No. **8:17-cv-00746-JLS-JDE**

I hereby certify that on April 7, 2023, I electronically filed the following documents with the Clerk of the Court by using the CM/ECF system:

**DEFENDANT’S COMBINED OPPOSITION TO PLAINTIFFS’
MOTIONS TO EXCLUDE TESTIMONY UNDER FEDERAL RULE
OF EVIDENCE 702**

I certify that **all** participants in the case are registered CM/ECF users and that service will be accomplished electronically by the CM/ECF system.

I declare under penalty of perjury under the laws of the State of California and the United States of America the foregoing is true and correct.

Executed on April 7, 2023, at San Francisco, California.

Vanessa Jordan

Declarant

Vanessa Jordan

Signature