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8 IN THE UNITED STATES DISTRICT COURT
9 FOR THE NORTHERN DISTRICT OF CALIFORNIA
10 OAKLAND DIVISION

11 UNITED STATES OF AMERICA,)
12 Plaintiff,)
13 vs.)
14 HENRY CERVANTES, et al.,)
15 Defendants.)
16)
17)
18)
19)
20)

Case No. 4:12-CR-00792-YGR
MOTION TO EXCLUDE OR LIMIT
THE TESTIMONY OF ALLEGED
ARSON OR FIRE INVESTIGATION
EXPERTS, INCLUDING RESULTS
OF ALLEGED TESTING DONE
WITH A HYDROCARBON ‘SNIFFER’
THAT DOES NOT PRODUCE
REVIEWABLE EVIDENCE
[EXHIBITS ATTACHED *Luna* CASE
AND ARTICLE]

Date: August 26, 2015
Time: 9:30AM
Dept: The Hon. Yvonne Gonzalez
Rogers, District Judge

21 TO THIS HONORABLE COURT; TO COUNSEL FOR THE GOVERNMENT;
22 TO COUNSEL FOR THE REMAINING DEFENDANTS:

23 HENRY CERVANTES, defendant in this action, brings this motion to
24 exclude or limit testimony from Government experts addressing arson or causes of
25 fire and covering the presence of accelerants, or ‘scientific’ evidence of arson as
26 detected by either examination or alleged hydrocarbon ‘sniffer’ or hydrocarbon
27 testing devices used on the Coolidge Avenue premises in September 2011. The
28 basis for the objections is:

MOTION TO EXCLUDE OR LIMIT THE TESTIMONY OF ALLEGED ARSON OR FIRE
INVESTIGATION EXPERTS, INCLUDING RESULTS OF ALLEGED TESTING DONE WITH A
HYDROCARBON ‘SNIFFER’ THAT DOES NOT PRODUCE REVIEWABLE EVIDENCE

1 1. The evidence in question cannot be admitted under the dictates of
2 Federal Rule of Evidence 702, Rule of Evidence 403, and under *Daubert v. Merrell*
3 *Dow Pharmaceuticals*, 509 U.S. 579 (1993), and *Kumho Tire Co. v. Carmichael*,
4 526 U.S. 137 (1999);

5 2. Testimony about the use of an instrumental detection of hydrocarbons
6 or including ‘results from’ chemical accelerants related to the setting of arson fires,
7 hydrocarbon indicators or ‘sniffers,’ should not be permitted, in the absence of both
8 instrumental documentation, corroborating chemical testing, and/or verifiability of
9 results, as well as because it is unreliable within the meaning of F.R.E. 702 and
10 misleading under F.R.E. 403;

11 3. The objections here are specific to the attempts by the Government, or
12 by any alleged fire or arson investigator, to reconstruct the manner in which fire
13 originated in the Coolidge Avenue property in the aftermath of the homicides
14 charged in Counts 5 and 6 of the Second Superseding Indictment.

15 The motion will be based on the above statement of the objections; on the
16 arguments and authorities in the appended memorandum of points and authorities,
17 which are incorporated by reference here as grounds to exclude the evidence; and
18 on any further evidence, authorities, or argument as may be proffered at the time of
19 any hearing on the motion.

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1 **MEMORANDUM OF POINTS AND AUTHORITIES**

2 **I. INTRODUCTION**

3 As demonstrated by the District Court's ruling in *U.S. v. Hebshie*, 754
4 F.Supp.2d 89 (D.Mass, 2010), failure to move for a *Daubert* hearing in a case
5 involving the use of less than reliable evidence of arson can deprive the accused of
6 effective counsel. The *Hebshie* court explained: "...case law raised concerns about
7 arson expert testimony similar to the concerns raised in this investigation [citation
8 omitted]." *Id.*, at 14. Recommended practices have focused on the need for
9 laboratory testing of material from a fire scene to address arson. *Id.*, at 111-12. In
10 this case, it is not clear that follow up lab work was done. In addition, there is case
11 law indicating that hydrocarbon 'sniffers' at a fire scene cannot reliably establish
12 arson.

13 According to investigation reports from the Oakland Fire Department that
14 were provided as part of the initial packet of discovery, in the aftermath of the
15 report of a fire at the Coolidge Avenue apartments ([REDACTED] ,
16 Oakland), Oakland Fire Department and Oakland Police investigators conducted
17 some investigation at the Coolidge Avenue apartments. According to the reports
18 generated, these investigators, including Investigator Cox, detected an odor of
19 ignitable liquid. Based on the walk-through of the scene, the use of a hydrocarbon
20 detector, and analysis burn patterns, a report was generated indicating that
21 'ignitable liquids' were involved in setting the fire.

22 This motion is filed to exclude, or limit, the expert testimony from alleged
23 fire or arson investigators about origin-of-fire opinions, including opinions about
24 burn pattern observations, or hydrocarbon detector readings, obtained by the
25 Oakland Fire Department and Oakland Police Department. Arson investigation is a
26 complex endeavor, and definitive analysis of the chemical evidence of the use of
27 accelerants requires more than using hydrocarbon 'sniffer' machines at the scene.
28 *Luna v. Kentucky*, 2015 Ky LEXIS 64 (Supreme Court of Kentucky Order

1 published June 2015) – submitted as an exhibit.

2 Some of the matters of concern to the defense were discussed at some length
3 in a series of rulings in a *habeas corpus* case that reviewed a state court conviction
4 obtained in the Eastern District of California in a case litigated, in *habeas corpus*,
5 under the title *Souliotes v. Hedgpeth*, 2012 U.S. Dist. LEXIS 58689 (E.D. Cal., April
6 26, 2012). The *Souliotes* unpublished order was one of a series of unpublished
7 rulings in the case, in which one of the issues was whether an individual convicted
8 in state court proceedings was guilty of having intentionally set a fire in which
9 three tenants of a rental property died. ‘Flammable compounds used as accelerants
10 and found at the scene...’ were described as circumstantial evidence of a
11 deliberately set fire. *Id.*, at 2-3. As the District Court *Souliotes* reviewed the
12 evidence of arson in that case, serious questions arose about the reliability of the
13 expert testimony. These are questions that have arisen in other cases also involving
14 arson investigation.

15 The Cervantes defense understands that the Government will likely be able
16 to introduce testimony from percipient witnesses who allegedly saw individuals
17 outside the Coolidge Avenue apartments, and saw activities, as well as heard
18 noises, consistent with individuals setting a fire at the Coolidge Avenue
19 apartments. The focus of this motion is on specific proposed expert technical or
20 scientific evidence dealing with the investigation of fire related evidence (or
21 allegedly fire related evidence) after the reporting of the fire at Coolidge Avenue,
22 and the initiation of the investigation into the deaths of Victims 1 and 2, and the
23 setting of the fire at Coolidge Avenue. The focus of the defense’s objections is not
24 on whatever lay testimony may be presented to suggest or explain that certain
25 activities likely resulted in the initiation of a fire. Rather, the objections, and
26 *Daubert/Kumho Tire*/Rule 702/Rule 403 objections here are focused on whether
27 there is evidence, produced by reliable methodology, and verifiable scientific or
28 technical means, that explains where portions of the fires were set; whether

1 accelerants were used to set them according to “objective” or scientific and
2 technical evidence. The defense objects and urges that unreliable ‘arson
3 investigator’ evidence should be excluded.

4 **II. DISCUSSION AND AUTHORITIES**

5 **A. Introduction**

6 The purpose of this pleading is to state the Cervantes defense’s objections to
7 technical or scientific expert evidence concerning certain aspects of the
8 investigation of the fire at [REDACTED]. As explained above, the
9 defense is clear that the Government is going to present lay witnesses who will
10 purport to have seen, or heard, evidence indicative that a fire was deliberately set at
11 [REDACTED] on September 11, 2011. The concern here, however, is that there
12 are substantial reasons to be concerned that testimony offered by so-called fire
13 investigators, or arson investigators from fire departments, law enforcement
14 agencies, or crime laboratories is neither technically nor scientifically
15 reliable—particularly in the absence of the application of certain techniques and
16 methodologies to the alleged evidence of arson—or deliberately set fire. The issue
17 is one of reliability, and this motion is in the heartland of issues that are reached in
18 a *Daubert/Kumho Tire* motion.

19 **B. Evidence at Issue**

20 In the discovery provided to the Cervantes defense, there are reports from the
21 Oakland Fire Department which responded to calls of a fire at [REDACTED]
22 [REDACTED]. In the aftermath of the fire, beginning in the early morning hours on
23 September 11, 2011, (NF-772) investigators of the Oakland Fire Department and
24 Police Department began investigating the scene.¹ According to one of the
25

26 ¹ References to documents, including NF772, et seq., are references to discovery
27 pages, and are offered for the convenience of the parties. The defense is making a copy
28 of the pertinent investigation report available to the Court, as an exhibit in support of the
declaration of counsel related to this motion.

1 Oakland Fire Department's pertinent reports, Oakland Fire Department Investigator
2 Bonnie Cox and Oakland Police Department Investigator Ryan Goodfellow,
3 together with a number of other named investigators, conducted an investigation at
4 the Coolidge Avenue apartments. A report that appears at NF772-777 states: "The
5 cause of the fires was determined to be intentional. These fires are incendiary."
6 (NF772.) The analysis offered includes reports that the fire investigators received
7 from firefighters and other witnesses. (NF773.) It also contains narrative
8 information about the investigation conducted by the investigators. At page
9 NF775, the report at issue indicates, without further detail, that there "...was an
10 odor of ignitable liquid on [the body of the female victim] and an odor of ignitable
11 liquid on the cloth on and around her body." The same report goes on to explain
12 that Oakland Police Department Fire Investigator Goodfellow "...used a
13 hydrocarbon detector which registered an indicator for an ignitable substance on
14 and around the body. Samples of the cloth were taken into evidence. It appears
15 most likely that the fire in this room was caused intentionally by someone pouring
16 ignitable liquid on the clothing of the female victim and lighting the vapors with a
17 cigarette lighter as the source of flame." (NF775.)

18 Inspector Cox's report then goes on to address observations "...that the
19 smoke patters indicated that the heat came from the west end of the apartment..."
20 (NF775.) Later on that same page the investigator states: "The burn patterns on the
21 exterior of the door and in the interior of this room indicated that the heat came
22 from the room at the northwest corner." (NF775.)

23 Other "findings" are described at NF776, including observations that the
24 investigator could "smell the odor of an ignitable liquid." Additional reference is
25 made to the use of a hydrocarbon detector at page 776. A further finding was that
26 the floor "...had a burn pattern consistent with the use of ignitable liquid."
27 (NF776.)

28 ///

1 **C. Objections and Authorities**

2 The Cervantes defense is raising issues here that are the exact focus of the
3 decision in *Daubert v. Merrell Dow Pharmaceuticals*, 509 U.S. 579 (1993), and
4 *Kumho Tire Co. v. Carmichael*, 526 U.S. 137 (1999). The concern is that this
5 Court, in its gatekeeping function, ensure that an expert’s testimony rests on
6 reliable foundation and is relevant to the task at hand. *Daubert, supra*, 509 U.S., at
7 593-94. The difficulty is that, as will be demonstrated here, evidence concerning
8 the origin and propagation of fire cannot be demonstrated, to use the phrasing of
9 Federal Rule of Evidence 702, to be “...the product of reliable principles and
10 methods.” On remand from the United States Supreme Court when the *Daubert*
11 case was reexamined by the Ninth Circuit, the court noted that the testimony of an
12 expert must be reliable. Where it is based on science, it must reflect scientific
13 knowledge, be derived from the scientific method, and the work product generated
14 must amount to “good science.” *Daubert v. Merrell Dow Pharmaceuticals*
15 [*Daubert II*], 43 F.3d 1311, 1315 (9th Cir., 1995). As the Ninth Circuit explained
16 elsewhere: “Scientific evidence is deemed reliable if the principles and
17 methodology used by an expert are grounded in the methods of science.” *Clausen*
18 *v. M/V New Carissa*, 339 F.3d 1049, 1056 (9th Cir., 2003). Of some importance to
19 the issues presented here are the observations made by the District Court in *United*
20 *States v. Prime*, 431 F.3d 1143, 1152 (9th Cir., 2005), in addressing the way that the
21 *Daubert* factors are applied in determining reliability.

22 Among the issues to be considered are: (1) whether a method can or has been
23 tested; (2) the known or potential rate of error; (3) whether the methods have been
24 subjected to peer review; (4) whether there are standards controlling the
25 technique’s operation; and (5) the general acceptance of the method within the
26 relevant community.

27 Admittedly, where a court is looking at specialized or technical evidence,
28 there are some distinguishing factors—though as has been noted, even where

1 scientific evidence per se is not the key component of an expert's proffer of
2 evidence, the *Daubert* factors apply, though they are "...not intended to be
3 exhaustive or unduly restrictive." *U.S. v. Sandoval Mendoza*, 472 F.3d 645, 655
4 (9th Cir., 2006) [analyzing the admissibility of psychological and
5 neuropsychological/medical opinions which, as the Ninth Circuit has pointed out,
6 do not strictly fall under the *Daubert* umbrella. The final injunction contained in
7 *Daubert II, supra*, 43 F.3d, at 1321, fn.17, is applicable here: "Federal judges must
8 therefore exclude proffered scientific evidence under Rules 702 and 403 unless
9 they are convinced that [the evidence] speaks clearly and [is] directed to an issue in
10 dispute in the case, and that it will not mislead the jury." As demonstrated by the
11 ruling in *U.S. v. Hebshie, supra*, 754 F.Supp.2d 89, the 'science' behind arson and
12 fire investigation has been addressed in case law and literature. Failure to address
13 *Daubert* can deprive the accused who fails to object to unreliable arson evidence of
14 effective assistance of counsel.

15 The problem at issue, and underscored here, is discussed at some length in a
16 relatively recent publication on the intersection between arson investigation and
17 legal standards. This review was prompted in part by some notorious arson cases
18 that were intertwined with murder investigations and prosecutions, and produced
19 what turns out to have been dubious, and undermined, courtroom evidence about
20 the origin and analysis of fires that were pertinent to the cases. See, generally,
21 Dioso-Villa, *Scientific and Legal Developments in Fire and Arson Investigation*
22 *Expertise in Texas v. Willingham*, 14 Minn. J. L. Sci. & Tech. 817 (2003). The
23 author of the article is a faculty member at the University of California at Irvine
24 School of Criminology, Law and Society. The introduction to the article at issues
25 notes:

26 Fire experts determine the cause and origin of fires,
27 whether the fire was intentionally set or accidental, and
28 they provide probative evidence in many criminal and
 civil cases. [Footnote omitted.] In light of research that
 has called into question the scientific validity of arson

1 investigative methods and claims, [footnote omitted] this
2 profession is now confronted with new challenges to its
3 admission as expert evidence, and the criminal justice
 system may potentially face new claims of innocence in
 cases that employed outdated techniques.

4 *Id.*, at 819.

5 The author goes on to explain that part of the difficulty in addressing the
6 reliability of the evidence provided by fire investigators associated with fire
7 departments and law enforcement agencies is that they do not use scientific
8 methodology that is rooted in the most recent studies of materials, engineering
9 surveys, and research. They often are exposed to a combination of departmental
10 training and on the job training that exposes them to some current information but
11 they use ‘rules of thumb’ concerning char patterns, melting patterns, and fire
12 analysis that have been debunked by scientific laboratory research. This point was
13 made in no less than the publication of the National Academy of Sciences,
14 *Strengthening Forensic Science in the United States* (2009), a publication that has
15 been referenced by the United States Supreme Court. The concern as summarized
16 by Dioso-Villa is this:

17 In its evaluations of the existing fire and arson
18 investigation techniques, NAS specifically referred to
19 arson indicators as ‘rules of thumb’ and acknowledged
20 that there is contradictory evidence to challenge its
21 validity. They recommended validation studies with
22 experimental designs to test the burn patterns in different
23 conditions in an attempt to put the field on ‘more solid
 scientific footing.’ Arson indicators do not conclusively
 prove that an accelerant was used or that the fire was
 incendiary, and the determination that a fire is arson
 based solely on these indicators would arguably be
 misleading to a jury and potentially erroneous.

24 *Id.*, at 825.

25 The concerns at issue have not been expressed solely by scholars and
26 students of law and society issues who have studied erroneous convictions and
27 some of the reasoning for them, particularly where fire analysis was of concern.
28 For example, the infamous, well-known Oakland fire in the San Francisco Bay

1 Area allowed fire investigators to understand that some of the myths about set fires
2 (there had been a suspicion that there had been signs pointing towards arson
3 activity in the notorious Oakland Hills fire) and research was produced that
4 demonstrated some of the mythology adhered to by investigators at the time.
5 Lentini, et al., *Unconventional Wisdom: The Lessons of Oakland*, Fire & Arson
6 Investigator (June 1993). Mr. Lentini, whose work on fire investigation has been
7 commented on by the NAS report among other works, has written about the
8 evolution of fire investigations for the legal profession. See, generally, Lentini,
9 *The Evolution of Fire Investigation and Its Impact on Arson Cases*, 27 *Criminal*
10 *Justice*, at 2012.²

11 **D. The Problem With Findings of Fire Investigation That Are Not**
12 **Noted, or Documented.**

13 The Lentini article just cited reviews some cases that have actually addressed
14 the course, and development, of fire investigation. Mr. Lentini reviews the history
15 of litigation in *Michigan Millers Mutual Ins. Corp. v. Benfield*, 140 F.3d 915 (9th
16 Cir., 1998) [Lentini’s article is appended to this pleading as an exhibit]. In doing
17 so, Mr. Lentini points out that even at that time, the International Association of
18 Arson Investigators had filed an amicus brief explaining that fire investigation was
19 ‘less scientific’ than the type of scientific testing discussed in *Daubert*. Lentini,
20 however, explains that currently “...most fire investigators will acknowledge that
21 the scientific method is the only valid analytical process by which one can reach
22 reliable and accurate opinions and conclusions regarding the origin and cause of a
23 fire. There are some, however, who neither understand nor follow the scientific
24 method.” [See Lentini article, third page—submitted as an exhibit in support of the
25 declaration of counsel.]

26 As Lentini explains in some detail in the article just referenced, and as other

27
28 ² The publication *Criminal Justice* is a publication of the American Bar
Association, attached as Exhibit B.

1 literature submitted to this Court demonstrates, arson “expert” testimony about
2 points of origin is often based on adherence to the generalized information passed
3 down within the ranks of fire investigators—and does not correspond to the kind of
4 information that has been developed through methodical study, laboratory analysis,
5 engineering surveys, materials research, etc.

6 The use of a hydrocarbon detector—as occurred here—which does not generate
7 any documentation to support the “findings” by an investigator is an example of the
8 type of technique that, by definition, is unverifiable. It is not a scientific technique.
9 It is not subject to assessment of potential error, because it is undocumented work.
10 In *Luna v. Kentucky*, *supra*, 2015 Ky LEXIS 64 (June 2015 publication decision,
11 Exhibit A), the Kentucky Supreme Court pointed out that evidence at a *Daubert*
12 hearing indicated that: “...a hydrocarbon detector is a valid scientific device or
13 technique, it reacts to far too many substances to provide any meaningful results.
14 As one of Luna’s witnesses put it, the device is merely a gross survey tool. All
15 involved agree that the hydrocarbon detector is not the gold standard in accelerant
16 detection.” *Id.*, at p.6. (See supporting exhibits and *Luna* ruling.)

17 This is not to say that the investigators in this case may not be right about
18 their observations—rather it is to say that their methodology is so lacking in
19 verifiability, rigor, or adherence to standards involved in an F.R.E. 702 analysis as
20 to make them excludable as expert opinion evidence.

21 As Maxfield, et al., point out in their book length treatment of *Research*
22 *Methods for Criminal Justice and Criminology* (2015, and 2011), from a technical
23 standpoint, is ensuring that “...a particular measurement technique, applied
24 repeatedly to the same thing, will yield the same result each time.” *Id.*, at 124. Part
25 of the problem here is that some of what the investigators in question essentially
26 have to say about this fire investigation is ‘I know it when I see it.’ That kind of
27 technical “expertise” is subject to exclusion, not only under *Kumho Tire* and Rule
28 702, but also under F.R.E. 403. All pertinent objections are being made here.

1 As demonstrated in the case law cited to this Court, and in the pertinent
2 literature, there are some techniques used to address the alleged causes of an ‘arson
3 fire’ by fire and law enforcement investigators that lack reliability. That is why the
4 District Court in *U.S. v. Hebshie, supra*, 754 F.Supp.2d 89, 108-15, referenced at
5 length in case law and literature that discusses the need for care in the litigation of
6 allegedly ‘reliable’ fire investigation methodologies.

7 The Court should conduct a hearing an limit the testimony of any arson or
8 fire experts and should exclude testimony about ‘the smell’ of accelerants and
9 about ‘findings’ from a hydrocarbon indicator and should exclude any other
10 speculative ‘fire science,’ including opinions based on “burn patterns.” The jurors
11 can see and hear the lay witness evidence and determine whether there was a plan
12 put in motion to set a fire—and whether actions towards that end were taken.
13 Speculative ‘science’ of arson detection should be excluded.

14 **CONCLUSION**

15 For the reasons set forth here and in the supporting documents, this motion
16 should be granted.

17 Dated: July 13, 2015

Respectfully Submitted,

18 JOHN T. PHILIPSBORN

19
20 /s/ John T. Philipsborn
21 JOHN T. PHILIPSBORN
22 Attorney for Henry Cervantes
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PROOF OF SERVICE

I, Melissa Stern, declare:

That I am over the age of 18, employed in the County of San Francisco, California, and not a party to the within action; my business address is Suite 350, 507 Polk Street, San Francisco, California 94102.

On today’s date, I served the within document entitled:

MOTION TO EXCLUDE OR LIMIT THE TESTIMONY OF ALLEGED ARSON OR FIRE INVESTIGATION EXPERTS, INCLUDING RESULTS OF ALLEGED TESTING DONE WITH A HYDROCARBON ‘SNIFFER’ THAT DOES NOT PRODUCE REVIEWABLE EVIDENCE

- By placing a true copy thereof enclosed in a sealed envelope with postage thereon fully prepaid, in the United States Mail at San Francisco, CA, addressed as set forth below;
- By electronically transmitting a true copy thereof;
- By having a messenger personally deliver a true copy thereof to the person and/or office of the person at the address set forth below.

Joseph Alioto, Jr., Assistant U.S. Attorney

Jennifer Sykes, DOJ Trial Lawyer

All defense counsel through ECF

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

Executed this July 13, 2015, at San Francisco, California.

Signed: /s/ Melissa Stern
Melissa Stern