

1 Q Do you have photographs showing all of the  
2 comparisons that you made?

3 A Yes, sir.

4 Q Do you have them with you?

5 A Yes, sir.

6 MR. TABAK: I have no further questions.

7 MR. AGUILAR: Nothing further.

8 THE COURT: You may step down, sir. Thank you.  
9 You are excused.

10 (Witness excused.)

11 MR. TABAK: Government calls Denny Kline.

12

13 D E N N Y K L I N E , called as a witness

14 by the Government, being first duly sworn, testified

15 as follows:

16 DIRECT EXAMINATION

17 BY MR. TABAK:

18 Q What is your occupation, sir?

19 A I am a special agent with the FBI.

20 Q How long have you been with the FBI?

21 A I have been assigned with the FBI for approx-  
22 imately fourteen years.

23 Q What is your educational background?

24 A I have a Bachelor of Science degree from Geo:  
25 Southern College and a Master of Forensic Science from

1 Georgia State University.

2 Q What are your duties with the FBI?

3 A Presently I am assigned full-time to the  
4 Explosives Unit at the FBI laboratory in Washington, D.C.  
5 In that connection, I have a variety of duties. Principa  
6 my duties are to examine items that are submitted to me a  
7 a result of bombings or attempted bombings, for the purpo  
8 of identifying bomb components and reconstructing bomb  
9 devices.

10 In addition, I also process bombing crime  
11 scenes. When a bombing actually occurs, I go to that  
12 scene, collect items of debris which may be of value, whi  
13 may be identified in a laboratory.

14 I am also involved in the testing and research  
15 into explosives and products that relate to my explosives  
16 field.

17 We are also involved in training and teaching  
18 and instruction and do assist our FBI agents where there  
19 is a need for my expertise that they do nt have.

20 Q What specialized training have you received  
21 regarding explosives?

22 A In addition to the training that all agents  
23 in the FBI get when they come to the FBI, I was first  
24 assigned to work on bombing matters and was the coordin  
25 of all bombing investigations in the New York Division.

mps Kline - direct

1 In connection with that assignment, I headed  
2 several FBI bombing divisions and also attended the  
3 hazardous devices course in Redstone, Alabama. This is  
4 where civilian and law enforcement personnel are trained  
5 in how to disassemble bombs and bomb recognition.

6 Upon completion of my experience in the field  
7 I was asked to come back to Washington, D.C. to serve  
8 the laboratory. At that time I was given an intensive  
9 training period under the supervision of examiners of  
10 years of experience and conducted literally hundreds of  
11 experiments on bombing components.

12 Subsequent to that training, I also attended  
13 a school at the Naval Ordnance Disposal in Maryland.  
14 This is where all of the military bomb technicians are  
15 trained.

16 In addition to these assignments, I have also  
17 processed hundreds of bombing crime scenes.

18 I have visited the manufacturers of explosives  
19 and seen how they actually make their bomb components  
20 explosive products, blasting accessories et cetera.

21 I am internationally recognized as an expert  
22 specialist and have provided instruction to Federal  
23 enforcement personnel and personnel throughout the world  
24 and have also served as an adjunct professor in the  
25 at George Washington University.

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1 THE COURT: In Washington?

2 THE WITNESS: That's correct, sir.

3 Q Have you testified in any Federal criminal  
4 trials?

5 A Yes; I have.

6 Q And have you been recognized, qualified as a  
7 expert in those cases?

8 A Yes; I have, on numerous occasions.

9 Q In the course of your work, have you had  
10 occasion to examine improvised explosive devices?

11 A I have.

12 Q What is an improvised explosive device?

13 A Bssically, it's a homemade bomb.

14 Q What are the basic types of components on  
15 explosive devices on improvised explosive devices or hor  
16 made bombs?

17 MR. AGUILAR: Your Honor, I believe we are  
18 really being cumulative. We have had experts on each  
19 bomb scene, and now we are going to have an expert who  
20 corroborate what the other experts testified about.

21 Basically it is extremely cumulative.

22 MR. TABAK: Your Honor, Mr. Kline has made  
23 great many laboratory comparisons that the people in the  
24 field were not in a position to make, and it is not on  
25 relevant but it is not cumulative, and it is highly pr

1 tive.

2 THE COURT: You may proceed.

3 Q What are the general types of components of  
4 improvised explosives or homemade bombs?

5 A Very briefly, in the interest of time, the home-  
6 made bomb consists of a homemade charge like dynamite or a  
7 C-4 plastic explosive, a detonator or fusing system to  
8 cause the bomb to explode.

9 In the process of explaining some of the com-  
10 ponents, that will fall into place, and I believe you will  
11 understand.

12 THE COURT: I think I have heard that testimony  
13 before. I think he has something to contribute, but let's  
14 get to it.

15 Q Is it fair to say that there are high explosives  
16 and low explosives and that high explosives are more damag-  
17 ing than low explosives?

18 A Yes, sir.

19 Q Have you examined bombs of numerous different  
20 terrorist groups?

21 A Yes; I have.

22 Q Have all of these bombs involved high explosive

23 A No; they have not.

24 Q Have you examined various bombs of the Omega 7  
25 group?

1 A Yes; I have.

2 Q What type of explosives did those bombs  
3 incorporate?

4 A They have all incorporated the use of a high  
5 explosive like dynamite or C-4.

6 Q Would it be fair to say that you have examined  
7 fragments and recovered components of Omega 7 bombs other  
8 than the main charges, in addition to the main charges?

9 A That's correct.

10 Q What types of other items have you examined  
11 from Omega 7 bombs?

12 A Well, the components of the bombs themselves  
13 specifically relate to the fusing or detonating system.  
14 These include pocket watches, wires, alligator clips,  
15 batteries, blasting caps and other items that we consider  
16 or identify as bombing paraphernalia.

17 Q Now, I direct your attention to the bomb  
18 detonated at the Cuban Mission to the United Nations on  
19 December 28 or 29, 1978. Did you examine any debris  
20 related to that bombing?

21 A Yes.

22 Q I am going to show you Government's Exhibit 405-E  
23 in evidence.

24 Do you recognize that?

25 A Yes; I do.

1 Q And how do you recognize it?

2 A I recognize it by my initials on the back as  
3 well as the items themselves.

4 Q As a result of your examination of this item,  
5 what if anything did you determine about it?

6 A These fragments that I have here before me in  
7 Government's Exhibit 405-E are the remains of a Satellite  
8 Ingersoll pocket watch.

9 Q Agent Kline, did you also examine debris in  
10 the March 29, 1975 bombing at the TWA terminal at the  
11 Kennedy Airport?

12 A Yes; I did.

13 Q I am going to show you Exhibits 1002-C, D, E,  
14 F, G, I, J, K and L in evidence.

15 Do you recognize those?

16 A Yes; I do.

17 Q And how do you recognize them?

18 A Also by the container for the items of evidence,  
19 as well as by the items themselves.

20 Q As a result of your examination of these items,  
21 what if any conclusion did you draw?

22 A Well, those are the exploded remains of an  
23 improvised firing system, a time delay firing system, which  
24 was constructed with a Satellite or Ingersoll pocket watch,  
25 AA size batteries and the plastic fragments and springs and

1 components and wires from a battery holder tht held the  
2 AA batteries with a snap connector.

3 Q Now, did you also examine fragments of  
4 materials found in the June 1979 bombing at St. John's  
5 Lutheran Church in Union City, New Jersey?

6 A Yes; I did.

7 Q I show you Government's Exhibit 407-A and 407-B  
8 in evidence.

9 Do you recognize those?

10 A Yes; I do.

11 Q And can you briefly describe the particular type  
12 of detonator cord that is shown in 407-B?

13 A Yes.

14 MR. AGUILAR: I am going to object again. We  
15 are rehashing the same thing. We have had experts from  
16 New York, the FBI and from Miami who have testified to these  
17 things.

18 What the Government is attempting to do is to  
19 go into the bombings again and rehash it again.

20 These are the same questions, what type of  
21 explosives were used, what type of watches, and I would  
22 object to this whole line of questioning, your Honor.

23 THE COURT: I am perfectly willing, to take new  
24 evidence, but particularly where, if I recall correctly,  
25 the testimony of these various law enforcement officers who



1 testified was not challenged, who were sometimes briefly  
2 cross-examined, sometimes not cross-examined at all, if my  
3 recollection is correct -- in other words, if they were  
4 matters that were in serious dispute by virtue of an attack  
5 upon the expertise or the credibility of one of those law  
6 enforcement officers who testified, I would certainly think  
7 you would have the right to put in testimony through this  
8 witness, but I must say that it would be much appreciated  
9 if you would get on to the new matter.

2 10 MR. TABAK: Your Honor, the Government has  
11 been highly selected in its questions. I don't believe  
12 that I am asking in this question anything, including about  
13 the detonating cord, which has been specifically identified  
14 before --

15 THE COURT: What exhibit are you talking about?

16 MR. TABAK: 407-B.

17 THE COURT: All right. Let's just make sure.

18 Russell Basile started by identifying the  
19 exhibit, if my own memory is correct, 'way back on August  
20 16th. He identified those photos.

21 Then you called, if my memory is correct,  
22 Edmund Binaski, a bomb technician, who picked up the blasting  
23 caps, including the detonator cord, and testified.

24 I remember that.

25 Do any of the jurors remember it? They do, too.

1 Let's get on to new matters.

2 MR. TABAK: Your Honor, I remember it also,  
3 and I would just ask if he can answer the specific ques-  
4 tions about the specific detonating cords, and the relevance  
5 will become apparent.

6 THE COURT: On your representation, I will  
7 permit him to answer the question.

8 A The photograph in 407-B depicts three different  
9 kinds of detonating cords. The detonating cord repre-  
10 sented in the top of the photograph is identified as an  
11 E cord, from Ensign Bickford in Connecticut.

12 Q Agent Kline, did you also examine components of  
13 the bombs from the bombing on Ambassador Roa-Kouri's car  
14 on March 25, 1980?

15 A Yes; I did.

16 Q I place before you various exhibits in the  
17 700 series, 701 to 711.

18 Do you recognize those?

19 A Yes.

20 Q And have you previously identified them?

21 A I have.

22 Q Have you prepared anything with regard to those?

23 A Yes. I have prepared a chart. The chart is  
24 a set of photographs which depicts this evidence.

25 Q I now show you Government's Exhibit 350 for

1 identification and ask if you recognize that --

2 MR. TABAK: Without showing it to the jury at  
3 this point.

4 A Yes; I do.

5 Q What is that?

6 A These are photographs which represent the  
7 evidence which we mentioned in Government's Exhibit 707,  
8 in the 700 series. They depict a radio-controlled  
9 receiver firing system, a six-channel receiver, two nine-  
10 volt batteries, two blasting caps, a type of composition  
11 board one-half inch in thickness. Aspenite wood was used  
12 for the construction of that board and the concealment  
13 container, which was a Colt firearms packaging box.

14 MR. TABAK: Government offers Exhibit 350.

15 MR. AGUILAR: We object. They have taken the  
16 evidence which they have previously introduced and made a  
17 composite of it and put it together.

18 I think the jury can look at all the evidence  
19 produced before and reach a conclusion. They are doubling  
20 back and using the same evidence in a different pattern,  
21 your Honor.

22 Agent Kelly, your Honor, I believe, was the  
23 witness who introduced the prior evidence.

24 MR. TABAK: The Government believes it would be  
25 more convenient for the jury to have this rather than

1 fumbling with the separate exhibits.

2 THE COURT: The jurors are nodding their heads,  
3 and there seems to be a desire on their part to be  
4 enlightened in this way.

5 MR. AGUILAR: Your Honor, the Government chose  
6 to introduce the prior evidence, and now they are going  
7 back and saying, "Well, we were really wrong, because the  
8 jury is going to fumble with it."

9 I think this is highly cumulative, your Honor.

10 MR. TABAK: Your Honor, as Mr. Aguilar knows,  
11 this would be against the rules of evidence if the Government  
12 had not offered the other exhibits.

13 THE COURT: Very well. The objection is  
14 overruled. Exhibit 350 is received.

15 (Government's Exhibit 350 for identification  
16 was received in evidence.)

xx 17 THE COURT: Ladies and gentlemen, in arge  
18 measure, Exhibit 350 is being offered as a summary, and I  
19 would suggest that to the extent you wish to go back to the  
20 underlying exhibits, as Mr. Tabak indicated, they are all  
21 in evidence. Of course, you may study them yourselves and  
22 draw your own conclusions.

23 BY MR. TABAK (Continuing):

24 Q Now, Agent Kline, did you also examine material  
25 recovered in October of 1982 from the Cuban Embassy in

1

New Jersey?

2

A Yes; I did.

3

Q And did you prepare a chart regarding those

4

items?

5

MR. AGUILAR: Your Honor, again we have a composite of all the materials, which have been introduced in evidence before.

6

7

8

THE COURT: Well, I will start by saying everything I have seen I have seen before.

9

10

In a case where the numbers are up to 4000 on the exhibits, although the aggregate of the exhibits has not reached that number I am agreeable to saying it may be helpful, for example, during the summations, to have charts like this.

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on the chart and draw conclusions that you believe are appropriate, you are free to do so.

23

BY MR. TABAK (Continuing):

24

25

Q Agent Kline, is Government's Exhibit 351 for identification items you examined in connection with the

1 bombing of the Fruit Meat King in Newark, New Jersey?

2 A Yes.

3 MR. TABAK: Governmentd offers Exhibit 351,  
4 your Honor.

5 MR. AGUILAR: Objection.

6 THE COURT: The objection is overruled.

7 Exhibit 351 is received, with the admonition  
8 to the jury which I have just given in connection with the  
9 previous exhibit.

10 (Government's Exhibit 351 for identification  
11 was received in evidence.)

xx

12 BY MR. TABAK (Continuing):

13 Q Agent Kline, did you examine debris from the  
14 September 2, 1982 bombing of the Venezuelan Consulate in  
15 Mimai?

16 A Yes.

17 Q I am going to show you Government's Exhibit  
18 504-F in evidence, a purplish box, and ask you to look  
19 inside.

20 Do you recognize the contents of that box?

21 A Yes; I do.

22 Q And what did you determine that to be?

23 A These are exploded fragments of a timing  
24 mechanism identified as a Helbros pocket watch.

25 Q Di you also examine components of the bomb found

1 near the Nicaraguan Consulate in Miami in February of  
2 1982?

3 A Yes; I did.

4 Q I show you Government's Exhibit 500-B in evidence  
5 and ask if you recognize it.

6 MR. AGUILAR: Your Honor, I will object again.  
7 I think we have had testimony about the Nicaraguan Consulate  
8 bomb from experts from the City of Miami.

9 THE COURT: Overruled, but let's get on with it.

10 A Yes. This is also a timing mechanism,  
11 identified as a Helbros pocket watch.

ET8

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(Continued on the next page.)

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1 Q Did you prepare a chart of items recovered from  
2 the Nicaraguan Consulate bomb?

3 A Yes, I did.

4 Q I show you Government's Exhibit 352 for  
5 identification, and ask if you recognize this.

6 A Yes, I do.

7 Q What is this?

8 A These are photographs that depict the evidence  
9 which I examined as a result of the submission on the  
10 bombing of the Nicaraguan Consulate.

11 MR. TABAK: The government offers Exhibit 352.

12 MR. AGUILAR: Your Honor, we have a standing  
13 objection. Unless there is anything new in these other  
14 photographs, we will have a standing objection.

15 THE COURT: The standing objection, as I  
16 understand it, is these charts or collections of photographs  
17 of exhibits are cumulative in nature?

18 MR. AGUILAR: That is correct, your Honor.

19 THE COURT: Indeed there is a cumulative  
20 effect here. At the same time, the court has concluded that  
21 in an attempt to assist the jury, the probative value of  
22 the evidence outweighs any cumulative effect or possible  
23 confusion. It is, in the court's view, more helpful than  
24 not.

25 Accordingly, 352 is received, with the objection



1 having been overruled.

xxxxxx

2

(Government's Exhibit 352 was received

3

in evidence.)

4

MR. TABAK: With the court's permission, I will

5

ask Agent Kline to step down, and with reference to

6

Exhibit 352 explain what, if anything, he concluded about

7

the pocket watch and timing mechanism.

8

THE COURT: You may.

9

THE WITNESS: As I mentioned in the qualifications,

10

what we do in the explosives unit is to identify bomb

11

components and try to reconstruct bomb devices. We

12

talked about the main charge, the dynamite or the C-4.

13

We also talked about the firing system.

14

In this particular bomb, this bomb did not

15

explode, was rendered safe by bomb technicians in Miami,

16

and was submitted to me.

17

In analyzing the time delay electrical firing

18

circuit, what we had was a pocket watch that serves as a

19

time delay, which I understand was explained before --

20

MR. AGUILAR: I object. Of course it was

21

explained before. They had prior evidence presented to them

22

on the same matter and I move to strike that.

23

THE COURT: I will strike that portion of the

24

witness' remarks.

25

THE WITNESS: The point I want to make about the

1 analysis we make are the individual alterations to the  
2 pocket watch. Just as someone writes a sheet of music  
3 and a person plays that kind of music, if three or four  
4 people played the same piece of music they would play it  
5 in a different way.

6 Bombs are made with timing mechanisms,  
7 particularly pocket watches, but each bomb maker will  
8 have his own little signature that is unique to him and to  
9 nobody else, and the way we identify a bomber as having  
10 made more than one bomb, we will examine a series of bombings  
11 and that is to notice the unique alterations to the pocket  
12 watch, the way he alters the pocket watch to use it as a  
13 timing mechanism.

14 In this case, the watch itself is the key to  
15 this bomber's particular signature. The first thing he does  
16 is remove the crystal of the pocket watch and then melts a  
17 hole through the crystal. He doesn't drill the hole, he  
18 melts it, and he takes a little file and the file makes the  
19 hole a little larger to accept a machine screw. The screw  
20 is put through the crystal and secured in that crystal with  
21 two little nuts.

22 In addition, on the face of the watch itself,  
23 at the twelve o'clock position, which is very critical, he  
24 puts a piece of black plastic tape to serve as an insulation  
25 between the metal screw through the crystal and the metal

1 face on the watch. This is so that there is not a  
2 continuous electrical circuit to the watch.

3 In addition, he wires his wire connection by  
4 soldering it to the stem on that pocket watch, which is  
5 somewhat unique, because he can in fact wire it to the  
6 back plate, wire it to the top of the case bow on the  
7 watch, or make a connection in some other way.

8 But in this case, he uses the solder connection  
9 by twisting the wire around the watch stem.

10 In addition, he uses an insulated solderless lug  
11 connector to connect another lead wire on the contact  
12 through the crystal to the battery power source and electrical  
13 blasting cap.

14 When the crystal is replaced on the watch  
15 itself, we have identified the rosin-epoxy adhesive material,  
16 a glue, epoxy-based glue, as being different.

17 Most of the time we find that people go through  
18 the back plate of the watch, take off the back plate and  
19 pull out the guts and do what they have to on the crystal  
20 or take a crystal remover. In this case, the crystal  
21 was pried off with a tool, and then replaced and secured with  
22 an epoxy-rosin adhesive material.

23 These alterations are significant and as we go  
24 through the cases, you will see how a pattern develops with  
25 the bomber's signature.

1 Q Agent Kline, did you also examine components of a  
2 bomb recovered in January, 1983 near Replica Magazine in  
3 Miami?

4 A Yes, I did.

5 Q Did you prepare a chart depicting -- photographs  
6 of what you examined?

7 A I did.

8 Q I am going to show you Government's Exhibit 353  
9 for identification. Do you recognize that?

10 A I do.

11 Q Is this the chart you prepared?

12 A Yes, it is.

13 MR. TABAK: The government offers Exhibit 353.

14 MR. FERNANDEZ: Subject to the same objection,  
15 your Honor.

16 THE COURT: Same ruling, same admonition to the  
17 jury.

18 (Government's Exhibit 353 was received  
19 in evidence.)

20 Q Agent Kline, I would ask you to step down and  
21 quickly explain what, if anything, you found significant  
22 about the watch in this --

23 MR. AGUILAR: I missed that last question, your  
24 Honor.

25 THE COURT: He asked Agent Kline to step down and

xxxxxx

1 indicate to the jury what he found significant with regard  
2 to this particular device. That is the essence of the  
3 question?

4 MR. TABAK: Yes, your Honor.

5 A Very briefly, again, this is the unexploded  
6 remains of a bomb that was rendered safe by a bomb  
7 technician in Miami at the Replica Magazine location.

8 Here we also have a time delay firing sytem  
9 employing a pocket watch, nine-volt battery power source,  
10 an Atlas blasting cap. Again we go to the specific  
11 alterations, and notice we have a twelve o'clock contact  
12 with the tape.

13 One thing I didn't mention on the Nicaraguan --

14 MR. AGUILAR: I object. He was asked what is  
15 significant about this particular bombing.

16 THE COURT: He remembered something he didn't  
17 tell the jury, and he would like to tell them, and I would  
18 like him to.

19 A I did not mention the hand in this case,  
20 the hour hand has been removed, cut off. That is another  
21 alteration that is significant. You can use either a  
22 minute hand or hour hand.

23 THE COURT: Did you see the same work product  
24 in connection with the Nicaraguan Consulate bombing?

25 THE WITNESS: Yes, your Honor. The minute hand had

1 been removed.

2 A The nine-volt battery power source, notice how the  
3 tape encases that battery, the connection of the wire to the  
4 neck on the crystal and the crystal has been melted,  
5 instead of drilled, a machine screw has been placed through  
6 there with two nuts, an insulated solder connector has been  
7 used, the crystal had been pried, again, from the frame,  
8 resecured before it had been disassembled by the bomb  
9 technician and myself, with an epoxy-type of glue.

10 We are beginning to see a signature or pattern of  
11 how the bomber makes his time-delay mechanism or how he  
12 alters his watch in the same way.

13 Q Did you also examine debris from the bombing of  
14 the Paradise store in Miami, and from the bombing of the  
15 Padron Cigar Company in Miami in January of 1983?

16 A Yes, I did.

17 Q Did you prepare a chart comparing items from  
18 those bombings and also from the January, 1983 Replica  
19 Magazine bomb?

20 A Yes, I did.

21 Q I show you Government's Exhibit 354 for  
22 identification, and ask if this is the chart you just  
23 described.

24 A Yes, it is.

25 MR. TABAK: The government offers Exhibit 354 in

1 evidence.

2 MR. AGUIAR: Same objection.

3 THE COURT: Same ruling, same admonition to the  
4 jury.

xxxxxx

5 (Government's Exhibit 354 was received  
6 in evidence.)

7 Q Could you describe what is shown on here?

8 A Yes. The bomb from the Padron Cigar store and  
9 Paradise International are the exploded remains of a  
10 bomb. The device we just talked about, at Replica Magazine,  
11 was unexploded. What we found from the exploded components  
12 are not as identifiable as that which is not exploded.

13 We did determine there was the presence of the  
14 Omega 7 self-stick labels, also the presence of a Helbros  
15 pocket watch in both the cases also.

16 I might add that the damage is consistent with a  
17 high-explosive main charge, like dynamite or C-4.

18 Q Did you also examine items found at 3034  
19 Southwest 7th Street in July of 1983 following Mr. Arocena's  
20 arrest there?

21 A Yes, I did.

22 Q Did you prepare charts with photographs of  
23 items from there?

24 A I did.

25 Q I now show you Government's Exhibits 355-A,

rmjah 9 Kline-direct

1 355-B, 355-C and 355-D for identification. Do you  
2 recognize those?

3 A Yes, I do.

4 Q What are those?

5 A 355-A are the time mechanisms and the remains  
6 of a Helbros pocket watch packaging configuration.

7 The second chart shows a Fuvava transmitter  
8 and an improvised remote radio control firing unit.

9 The remaining two charts depict bomb-making  
10 paraphernalia, which includes tools, wires, toggle switches,  
11 batteries, batteries with tape on them, battery holders,  
12 soldering irons and tape dispensers.

13 MR. TABAK: The government offers Exhibits 355-B,  
14 -B and -D in evidence.

15 MR. AGUILAR: We object because this evidence was  
16 introduced this afternoon and it is present before the  
17 jury.

18 THE COURT: Let me suggest this: The exhibits  
19 which do depict items in evidence can, at least in the  
20 court's view, assist the jury in understanding the evidence.  
21 If I may say so, the evidence was put in in large bunches,  
22 and here it is organized in a way which in my view may be  
23 of some assistance to the jury in dealing with the various  
24 issues in the case. Since I have determined that the  
25 evidence has probative value and although to a great extent



1 is a summary, it does seem to me something that can be of  
2 assistance to the jury.

3 Accordingly, the objection is overruled and  
4 355-A, -B, -C and -D are received, with the admonition,  
5 ladies and gentlemen, that these charts are aids which  
6 were prepared by the government to assist you in your  
7 consideration of the evidence. If you wish to go back to  
8 the evidence itself and look at it and study it, you are  
9 free to do so.

xxxxxx

10 (Government's Exhibits 355-A through 355-D  
11 were received in evidence.)

12 MR. TABAK: I would ask Agent Kline to step down  
13 and with the aid of Exhibit 355-A explain what is depicted  
14 on it.

15 THE COURT: You may.

16 THE WITNESS: These are the timing mechanisms,  
17 photographs of those mechanisms, that were represented here  
18 by photograph, evidence you have previously seen. These  
19 timing mechanisms, 13 in total, they have been used again  
20 as time-delay electrical firing systems. There are no  
21 explosives here, no detonator here, but these can be  
22 employed and in my experience can only be used as a matter  
23 of fact in the use of a time-delay firing system. There  
24 is no other practical application for a component like  
25 this. All the pocket watches are all Helbros models. The

1 crystals have been removed and replaced. They are in a  
2 plastics projects box container, and this little plastic  
3 on the outside is simply the bottom of a clear plastic cup  
4 that you might drink fluids out of. It has been sealed  
5 to the projects box with an epoxy-rosin type of material.

6 The watches themselves have been altered  
7 identical to the two watches, one from the Nicaraguan  
8 Consulate, and one from Replica Magazine. As you can see,  
9 the tape in each of the positions is at twelve o'clock,  
10 the solderless lug connector and the bolts connected to  
11 each and sometimes the minute hand has been removed.

12 If you have an hour hand removed and the minute  
13 hand is the contact, you have a 59-minute delay. If you  
14 use the hour hand, you have 11 hours and approximately 59  
15 minutes. So the bomb maker can distinguish the length of  
16 time by the hand he removes. Those hands have been either  
17 cut or broken with a scissors or pliers.

18 On the top of the boxes we have insulated  
19 toggle switches and the battery snap connector. The  
20 connections in all of these were made on the outside and not  
21 to the ring itself.

22 Q Would you now explain what is shown on  
23 Exhibit 353-B? I will ask you to stand behind the exhibit  
24 so all the jurors can see the exhibit.

25 MR. AGUILAR: I object to what is shown. I

1 think it is in evidence not only in pictures but also  
2 in substance over there, and now he is explaining what is  
3 already in evidence.

4 THE COURT: I will allow it.

5 THE WITNESS: The top two photographs represent  
6 the Fuvava transmitter. As you will notice, on the  
7 transmitter, as the transmitter was sold or purchased,  
8 there was a sticker that says "72.240 megahertz." That  
9 means this transmitter will transmit on a frequency of  
10 72.240 megahertz. It should be used in connection with  
11 a receiver which is found in this improvised firing system  
12 that also has a 72.240 crystal that will accept that radio  
13 frequency.

14 In this case, the receiver in this unit  
15 down here in the remote-control firing system has a label  
16 on it that says "72.008." Now, that is not compatible  
17 with the crystal in that transmitter, and it means this  
18 would not work this. However, the crystal has been removed  
19 from the original receiver unit down here and a receiver  
20 of 72.320 was inserted in its place.

21 In addition, inside this box a crystal of 72.320  
22 has been inserted in there. So now the transmitter can  
23 transmit radio frequencies that will activate or move  
24 these armatures in the radio-control firing system.

25 Q I would now ask you to briefly identify what is

1 shown in Exhibit 355-C.

2 A We have wire connectors, alligator clips, and  
3 this is radio speaker wire to which has been added male plugs.  
4 There are numerous mounts for flashbulbs. Down here are  
5 the insulators, toggle switches, battery holders and the  
6 double-A-size Duracell batteries, and are secured with  
7 tape.

8 There are various kinds of black plastic tape,  
9 three-quarter-inch and one-inch wide. These are switching  
10 mechanisms. Here is a nine-volt battery like in the  
11 Nicaraguan Consulate that had tape around it to conceal  
12 it, and there are battery snap connectors for the nine-volt  
13 battery.

14 Q Agent Kline, have you made any charts for  
15 comparison purposes between items found at the various  
16 locations?

17 A Yes, I have.

18 Q I am going to show you first Government's  
19 Exhibit 356 for identification, and ask what that is.

20 A These are photographs of components received from  
21 the Roa, R-o-a, device, the search of the Fruit & Meat King  
22 market and the search subsequent to the arrest of  
23 Mr. Arocena.

24 Q What is Exhibit 358 for identification?

25 A Those are photographs showing the comparison of

1 the pocket watches found at Mr. Arocena's apartment at the  
2 time of his arrest, and watches from the Nicaraguan  
3 Consulate as well as the Replica Magazine.

4 On the bomb of the chart is a photograph depicting  
5 a comparison of all pocket watches that we have talked about  
6 today.

7 MR. TABAK: The government offers Exhibits 356 and  
8 358 in evidence.

9 MR. AGUILAR: Same objection.

10 THE COURT: Same ruling. These essentially are  
11 summaries but they do appear to me to be summaries of  
12 materials which are presently in evidence and, accordingly,  
13 in my judgment, may be of assistance to the jury in  
14 connection with its consideration of the various bombings  
15 which are charged in this case.

16 Overruled. Received.

17 (Government's Exhibits 356 and 358 were  
18 received in evidence.)

19 Q I would ask you to step down and explain what is  
20 shown on Government's Exhibit 356.

21 A Inthe upper right-hand corner are two pieces of  
22 compressed board. It is called flake board. These two  
23 pieces of wood, the one on the left was recovered at the  
24 Fruit & Meat King market. The piece of wood on the left is  
25 a piece of wood used to mount the firing system, the

1 radio-controlled firing system for the Roa device.

2 Q I believe you said on the left both times?

3 A Did I?

4 MR. AGUILAR: I object to Mr. Tabak correcting what  
5 the witness testified to.

6 THE COURT: If the witness has made an  
7 inadvertent slip, it doesn't seem to me to be of assistance  
8 to the jury.

9 MR. AGUILAR: Mr. Tabak is trying to carry on a  
10 conversation with this witness --

11 THE COURT: He is not. He did attempt to correct  
12 the witness. If the witness accepts the correction, he  
13 should say so. If he wishes to adhere to his original  
14 testimony, he may do so.

15 A If I said that this piece of wood on the right  
16 was on the left, I do stand corrected. It is obviously on  
17 the right-hand side. The piece of wood on the right-hand  
18 side is identical in construction to the piece of wood on  
19 the left-hand side. They are both one-half inch in  
20 thickness, both constructed with aspenite and compressed  
21 together with adhesive type material. I cannot say they came  
22 from the same source, but that simply they are the same type  
23 of wood.

24 The tape in the second photograph are both one-inch  
25 wide black plastic tape.

1           The tape which is Government's Exhibit 3001 is tape  
2 recovered from the Fruit & Meat King market. The tape on  
3 the right was taken from the Roa device.

4           As you notice, there is a very significant tear  
5 similarity there. That is not a positive identification.  
6 From the fracture, we could not say this piece of tape  
7 was originally one and the same, from that piece of tape,  
8 but we do an analysis of tape in the laboratory, we  
9 analyze the tape in several different ways.

10           The first thing we do --

11           MR. AGUILAR: I object as to what the lab does  
12 if he doesn't do it.

13           THE WITNESS: I did this.

14           THE COURT: He now has corrected himself to say  
15 that he did it.

16           You do not wish to pursue the objection?

17           MR. AGUILAR: No, your Honor.

18           THE COURT: Very well.

19           A     The surface characteristics are the first thing  
20 I look at on the tape. When tape is manufactured, it is  
21 manufactured in big sheets and it is called a calendering  
22 process, and there are big steel rollers that roll the tape  
23 flat and make it very thin. The roller is like a tool and  
24 when it rolls on the tape, it makes marks on the surface of  
25 that tape, and when you examine this tape microscopically, you

1 can see the surface characteristics, like pits and craters  
2 on the moon, almost.

3 As tape is manufactured, these calendering  
4 processes, even though it is the same manufactured tape  
5 over a period of time, wear down and the surface  
6 characteristics they impart change the impressions or surface  
7 characteristics that we see. So we are able to say that  
8 this is kind of like that if the impressions are the same.

9 Going one step further, the tape is  
10 instrumentally analyzed for the plasticizers and the  
11 plastics in the two pieces of tape are the same.

12 We go to the underside of the tape, the  
13 adhesive side. That is instrumentally analyzed and the  
14 adhesive in these two pieces of tape was also instrumentally  
15 the same. We can't say in fact that this piece of tape  
16 was one continuous roll with that, but I can say based on the  
17 three positive conclusions I reached, that in fact this  
18 is the same kind of tape as that tape, the tape that came  
19 off the Roa device was the same kind of tape we found  
20 in the Fruit & Meat King market, and in fact was manufactured  
21 by the same manufacturer at approximately the same time.

22 Coming down to the third picture on the  
23 right it is the remote radio-control firing system that was  
24 found at the time of Mr. Arocena's arrest. If you will  
25 notice, we have 1, 2, 3, 4, 5 servo motors. These are the



1 little motors that received the frequency from the  
2 receiver, the six-channel receiver here, for the power  
3 pack and when this transmitter that I showed you down here  
4 transmits signals to this unit, these little armatures on  
5 the servo motor move.

6 As we mentioned, the signature of the bomber with  
7 regard to the alterations on the pocket watch, we also have  
8 signatures with regard to this remote radio-control firing  
9 system.

10 We talk about the armature here on these devices  
11 being broken up, a stiff piece of wire placed through there,  
12 toggle switches bolted onto the servo motors. They have  
13 been secured inside a black or a plastic projects box.  
14 These units are all wires in series, as opposed to  
15 parallel. It is a type of wiring system.

16 As we go to the left of the chart here, here we  
17 have a similar radio-controlled firing system and  
18 this is the device that was used in the Roa attempted  
19 assassination.

20 Here we have, instead of five, six servo motors.  
21 This is the receiver from that motor that has been removed and  
22 placed down here. The crystal in this unit right here  
23 is 7 2.240 megahertz. As you will notice down here, the  
24 symbol or the stick on that receiver also identifies the  
25 crystal on the receiving unit as being 72.240 megahertz..

rmjah 19

Kline-direct

1           As you will recall, earlier in my testimony, the  
2 Fuvava receiver was originally designed to transmit radio  
3 frequencies at 72.240. If this unit had its original  
4 crystal, it would have effectively controlled the servo  
5 motors in the Roa device.

6           Q     I am now going to ask you to explain what is shown  
7 on Government's Exhibit 358.

8           A     These are a slight number of watches taken from the  
9 thirteen from Mr. Arocena's apartment. The watch on the  
10 bottom left is from the Nicaraguan Consulate, the watch  
11 on the bottom right is from Replica Magazine. This is  
12 in the photograph in the upper left-hand corner of the  
13 chart, Government's Exhibit 358. I have briefly discussed  
14 some of the alterations, but there we have a composite  
15 outline of those through the use of photographs. Again,  
16 the twelve o'clock, the tape insulation, the adhesive  
17 material around the frame itself, the solderless lug  
18 connectors, holes melted through the crystal and not  
19 drilled. The connection as you see up here to the stem  
20 of the watch has been soldered, the wire twisted and  
21 solder-connected and in some the hour and minute hands have  
22 been removed.

23                   I have a chart depicting all of those alterations  
24 showing their similarities.

25           Q     Agent Kline, have you had occasion to review

1 Government's Exhibit 2051-T, which is a translation of the  
2 bomb manual which was found?

3 A Yes, I have.

4 Q Found at the Mini-Stor-It warehouse.

5 A Yes, I have.

6 Q You have reviewed that?

7 A Yes, I have.

8 Q What can you tell the jury about that bomb  
9 manual?

10 A This bomb manual is a manual in fact for the  
11 construction of home-made bombs. The first part of the  
12 manual itself is a very detailed description on the use  
13 of time clocks to produce or manufacture or make a time-  
14 delay electrical firing system using pocket watches.  
15 Of particular note are the specific instructions regarding  
16 the alternation of the time clocks for construction  
17 and the type that was used. It suggested that Ingersoll  
18 or Satellite be purchased because they are rather good,  
19 solid watches that have good conductivity for electricity.  
20 They speak specifically about making a hole through  
21 the crystal, removing the plastic cover, we proceed to  
22 heat the needles with a match on the stove and then  
23 placing the needles through the crystal.

24 Baically, every alteration to a pocket watch  
25 that we have seen in the alterations of the pocket watches  
used in the bombs is described in the manual itself.

1           In addition, it talks about some explosive,  
2 the use of dynamite, TNT and plastic explosives and detonat-  
3 ing cords, and of particular interest on one of the pages  
4 here it discusses using a detonating cord by tying a knot,  
5 a double overhand knot in the detonating cord and placing  
6 it in the explosive itself.     The reason for doing that  
7 is that a lot of times the military explosives like C-4  
8 are relatively insensitive to commercial types of blasting  
9 caps, and therefore you need something to boost the shot  
10 to cause the C-4 to explode.

11           This is the technique described in that manual.

12           Q     Are the techniques described in that bomb  
13 manual, based on your experience and training, techniques  
14 that were followed in getting these bombs to work?

15           A     Absolutely.

16           Q     Now, are the techniques described in that  
17 manual and in the bomb that you have discussed today  
18 techniques that you have seen used in bombings by other  
19 groups?

20           A     Not exactly.    I have seen techniques employed  
21 by the groups and not with all these features employed.

22           MR. TABAK:   No further questions.

23           THE COURT:   You may cross-examine.

24

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25

1 CROSS EXAMINATION

2 BY MR. AGUILAR:

3 Q Agent Kline, did you examine every bombing  
4 that happened in the last couple of years that was  
5 attributed to Omega 7?

6 A Since approximately 1975, yes.

7 Q And do you know how many bombings those were?

8 A Approximately forty-seven.

9 Q And did you examine all forty-seven bombs?

10 A Yes.

11 Q And all forty-seven bombings were done essen-  
12 tially the same way?

13 A Basically, that's correct.

14 Q All of them?

15 A All of them. Not identical, but there were  
16 constituents and components --

17 THE COURT: Was there an evolution in that  
18 period of time or refinements that you observed?

19 THE WITNESS: Well, in the beginning we had  
20 Satellite pocket watches, and then we transcended to a  
21 little more expensive Helbros watches, but the items that  
22 I examined that were unexploded were identical in con-  
23 struction.

24 Q And you testified that because of the  
25 innovative nature of the bomb they could not be attrib-

1       uted -- or they are not similar to bombings that were  
2       done and claimed by other organizations; is that  
3       correct

4           A       If I may cite something about the identifica-  
5       tion and my conclusions about bomber signatures, when you  
6       take a pocket watch and use it as a time delay firing  
7       system, the techniques of making or employing the use of  
8       a pocket watch in a firing system are readily available in  
9       a lot of publications.

10               Those are a little bit different and unique,  
11       something like you see in the Poor Man's James Bond or  
12       the Anarchist's Cook Book.

13               Usually soldering a piece of wire to the neck  
14       of the wind-up stem of the pocket watch was not particularly  
15       unique.     Putting a piece of tape in the twelve o'clock  
16       position alone is not unique.     But when taken together,  
17       the preponderance of similarities is so singularly unique  
18       that it is my conclusion that the person who made the  
19       bomb for the Nicaraguan bombing, the device that was used  
20       in Replica Magazine and who altered the 13 watches found  
21       in the Arocena apartment at the time of his arrest, were all  
22       made by the same person or persons, who used the same  
23       source of instruction such as this book.

24               MR. AGUILAR: I have nothing further, your  
25       Honor.

1 MR. TABAK: No further questions, your Honor.

2 (Witness excused.)

3 MR. TABAK: Your Honor, with that the Government  
4 rests.

5 THE COURT: The Government rests.

6 Ladies and gentlemen, I am going to excuse the  
7 jury until Monday morning at ten a.m.

8 Please do not discuss the case among yourselves  
9 or with anyone else.

10 According to my calculations, you have heard  
11 eighty-five witnesses presented by the Government, some  
12 presented more than once. You have also had introduced  
13 before you, as you know, hundreds, if I may say so, of  
14 exhibits.

15 I must caution you that even at this time the  
16 case is not over. We will proceed on Monday to hear  
17 from the defense. We then have ahead of us the summa-  
18 tions and the charge which I will give you and therefore  
19 I would admonish you to keep an open mind on all aspects of  
20 the case until the case has been concluded and given to you  
21 following my charge.

22 Finally, Mr. Guranich informs me that there  
23 will be checks here on Monday which will compensate you  
24 for the service you have rendered since the last time you  
25 were paid.