

# FBI Laboratory

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#### LABORATORY REPORT

Washington Field Office Date: January 13, 2021

Case ID No.: WF-

Lab No.: 2021

Communication(s): January 7, 2021

Agency Reference(s):

Subject(s):

Victim(s):

Discipline(s): **Explosives Device** 

FBI Laboratory Evidence Designator(s):

Item 1 Battery, wires, electronic components (1B1)

Item 1-1 White colored powder (1B1)

Item 1-2 Swab of Item 1 (1B

Item 1-3 Steel wool, debris, plastic from Item 1 (1B1)

Item 2 Powder sample (1B5)

Item 3 Metal pipe (1B3)

Item 3-1 Swab of Item 3

Item 4 Metal end cap (1B4)

Item 5 Fabric (1B2)

Item 6 Blank control swab (1B8)

Control swab of collector (1B6) Item

Item Swab of north curb at Ivy and Canal Street SE (1B7)

Item 9 Powder sample (1B12)

Item 10 Metal pipe, two metal end caps, wires, plastic, metal clips (1B15)

Item 10-1 Powder from pipe (1B15)

Item 10-2 Swab of Item 10

#### UNCLASSIFIED

Item 10-3	Steel wool and powder from Item 10 (1B15)			
Item 11	Pieces of electronic components (1B14)			
Item 11-1	Swab of Item 11			
Item 11-2	Wires, plastic and debris (1B14)			
Item 12	Pieces of plastic and metal (1B13)			
Item 12-1	Pieces of fuzing system (1B13)			
This report contains the results of the Explosives and Hazardous Device Examinations performed in the Explosives Unit.  ADMINISTRATIVE:				



Figure 1, Device 1, located near the DNC 400 Canal St, SE Washington, D.C



Figure 2, Device 2 located near the RNC 300 Block of 1st, SE Washington, D.C.

According to your incoming communication, on 01/06/21, two (2) pipe bombs, (Figures 1 and 2) were discovered in Washington D.C. by an Unknown Subject (UNSUB). One pipe bomb was discovered at the 400 Block of Canal Street Southeast Washington D.C. A second pipe bomb was discovered at the 300 Block of 1st Street Southeast Washington D.C. near the U.S. Capitol building. MPDC Bomb Squad and FBI Special Agent Bomb Technicians (SABTs) responded to the scene.

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Your office further advised that the bomb squad performed a render safe procedure (RSP) on the suspected IEDs. An RSP is a disassembly procedure that utilizes tools to remotely separate SENINATION SERVICES suspected live devices thereby making it safe to approach and collect the evidence. The items were collected and submitted to the FBI.

This report will be broken down into three (3) Sections. Section 1 will cover the conclusion, Section 2 will cover an overview of the functioning of the pipe bombs and the results of the examinations for each device, and Section 3 will cover similarities between the two devices.

# **SECTION 1**

#### **CONCLUSION:**

Present in the submitted specimens, Device 1 (Figure 1) consisting of Item 1, Item 1-3, Item 2, Item 3, Item 4, and Device 2 (Figure 2) consisting of Item 9, Item 10, Item 10-1, Item 10-3, Item 11, Item 11-2 and Item 12-1 are the dissembled remains of two (2) Improvised Explosive Devices (IED's), also known as homemade bombs. The general components of an IED are a main explosive charge, a fuzing system and a container.

Device 1 contained the chemical oxidizer and fuels that when mixed in the proper proportions can form the low explosive black powder. Device 2 contained the low explosive black powder. For detailed information of the chemical analyses conducted on the powders, see the FBI Laboratory Reports of dated January 12, 2021, Report number dated January 16, 2021, Report number

The powders from both devices were contained within a metal pipe and utilized an electric fuzing system. When made properly and ignited by a suitable source of heat, low explosives are designed to deflagrate and generate gases. Within a confinement container, such as a pipe, these gases create large amounts of pressure on the container walls and cause an explosion of the container. This explosion would result in fragments of the container being propelled outwards at high velocities into the surrounding environment.

When properly assembled and initiated an IED of this sort can cause property damage, bodily injury, or death. A detailed description of the components that comprised these IEDs is provided hereafter.

# **DESTRUCTIVE DEVICE:**

It is also the opinion of this Explosives and Hazardous Devices Examiner that the submitted items consisted of two (2) disrupted Destructive Devices. The use of a hard metal container (metal pipe nipples and end caps) shows that weapon characteristics are present.

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# **SECTION 2**

#### **RESULTS OF EXAMINATIONS:**

#### **Overview:**

Both IED's were constructed using similar components. A logical construction technique to produce an IED similar to those submitted is described below and shown in Figure 3:

- Obtain one (1) pipe nipple and two (2) end caps (main charge container), a low explosive (main charge), wires, clock, battery, and steel wool.
- Screw one end cap to one end of the pipe nipple.
- From the other end, fill the pipe with low explosive materials.
- Drill a priming hole in one of the end caps. (A priming hole is used in an IED utilizing pipe nipple and end caps to allow a fuse to be inserted to initiate an energetic material such as low explosives).
- Attach two wires to steel wool. Run the wires through the priming hole and insert the steel wool into the end cap.
- Screw the second end cap onto the pipe nipple ensuring the steel wool is in contact with the main charge material.
- Modify the timer using metal contacts to produce a switch that closes when the timer counts down.
- To deploy the IED one would set the timer, opening the switch, then connect the battery and the leads from the steel wool into a circuit that functions when the timer switch closes.
- As current passes through the steel wool, the steel wool would heat up and burn with enough heat to ignited low explosive materials.
- The gases generated from the deflagrating low explosives would put pressure on the container walls and cause an explosion of the container.
- The explosion of the container would result in fragments of pipe and end caps being propelled outwards into the surrounding environment, which could cause property damage, personal injury and death.

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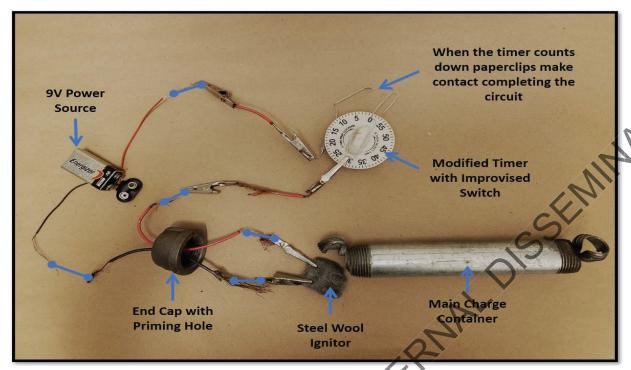


Figure 3 Logical construction diagram.

#### **DEVICE 1**

# **Explosive Main Charge (Device 1):**

Powder from Device 1, Item 2 contained the oxidizer potassium nitrate, the fuel sulfur, and a fuel consistent with charcoal. The powder was tested for thermal susceptibility (flame test) with negative results. In the proper proportions, these chemicals can form the low explosive black powder.

For detailed information of the chemicals analyses conducted on the powder, see the FBI Laboratory Report of dated January 12, 2021, Report number

When properly ignited by a suitable source of heat, low explosives are designed to deflagrate and generate gases. When properly confined in a container such as a can, bottle, or pipe, the gases generate pressure on the container walls and cause an explosion of the container.

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# **Main Charge Container (Device 1):**





Figure 5 Item 4 One (1) end cap with priming hole.

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Item 3 (Figure 4) and Item 4 (Figure 5) consisted of one (1) silver colored metal pipe nipple with one (1) dark gray colored metal end cap. The pipe nipple was threaded on both ends. These items together were utilized as a main charge container.

Present in the end cap (Item 4) is a hole measuring approximately 0.22 inch in diameter. This hole, commonly referred to as a priming hole, is a modification made to the pipe to allow for the insertion of the fuzing system into the container.

Device 1 only had one end cap submitted, Item 4. However, the picture from the scene shows that the device had two (2) end caps prior to the RSP conducted by the bomb squad.

The pipe nipple in Device 1 had an approximate length of 8.0 inches with an inner diameter of approximately 1.0 inch. The following manufacturer information etched into the pipe nipple; "M" and below that CHINA" which is visually consistent with Mueller Industries product labeling.

The end cap associated with the pipe nipple, Item 4 measured approximately 1.18 inches in height and an approximate inner diameter of 1.13 inches. The following manufacturer information etched into the pipe nipple; "M", "FM", "CHINA", and "1" which is visually consistent with Mueller Industries product labeling.

# **Fuzing System (Device 1):**

Present in Device 1 (Figure 6 and Figure 7) are the disassembled components of an electrical fuzing system. An electrically activated fizing system consists of a power source, conductors, switch(es), and load (ignitor). All of these items are present in Device 1.



Figure 6, Item 1, Pieces of the fuzing system.

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Figure 7, Item 1 Kitchen timer, paper clip, alligator clip and wire.

# **Power Source: (Device 1)**

Present in Item 1 is one (1) Energizer 9 volt battery (Figure 8) with a measured voltage of approximately 8.10 volts.



Figure 8, Item 1, 9 volt battery

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Manufacturer information on the battery is as follows: "12-2023""ALKALINE BATTERY", "Made in Malaysia for Energizer Brands, LLC, St. Louis, MO 63141", "SNI 04-2051.2-2004", "9V SIZE FORMAT-522 6LF22-6AM6-9V" and on the bottom of the battery was "0818". The battery measures approximately 1.76 inches in length with a width of 1.04 inches.

# **Conductors (Device 1)**



Figure 9, Item 1 Conductors (Wire, Alligator clips, 9 volt snap connector, and steel wool)

Present in Device 1 (Figure 9), Item 1 are the below listed conductor components.

Three (3) lengths of red insulated multi-strand wire, one (1) length of black insulated multistrand wire, 9 volt snap connector, two (2) paper clips and six (6) alligator clips. Three of the alligator clips were still attached to the red insulated wire, while the other three appear to have been separated from the wire.

The red insulated multi-strand copper colored wire varies in length from 1.5 inches to 5.0 inches with an approximately AWG of 14. Information printed on the red insulation is as follows: "...SOLINE AND OIL RESISTANT 11 OR AWM 600V VW-1 – c(UL) T90 NYLON OR TWN 75 600V FT1..-AN....", "SOUTHWIRE E51583 F(UL) AWG 1.....", "T1,,-ANCE 90C---RoHS"

The single black insulated multi-strand copper colored wire is approximately 7.5 inches in length with an approximate AWG of 14. Information printed on the black insulation is as follows: "...RESISTANT 11 OR AWM 600V VW-1--- c(UL) T90 NYLON OR TWN 75 600V FT1..."

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The 9 volt snap connector consisted of a black vinyl material covering two (2) metal terminals. Connected to the two (2) terminals was two (2) insulated multi strand silver colored wires, (one black in color insulated wire and one red in color insulated wire). Both wires has an approximate length of 6.0 inches with an approximate AWG of 24. The following manufacturer information was on the black insulated wire: "AWM E214382 1007 24 AWG VW-1 80 C 300V KA1 TAT" and the following manufacturer information was on the red insulated wire: "AWM I A 80 C 300V 24 AWG FT1".

The six (6) silver colored alligator clips in Item 1 were all similar in dimensions with an overall approximate length of 2.03 inches and an approximate width of 0.29 inch.

Item 1 also contained two (2) silver colored paper clips. Paper clips can be used as conductors in conjunction with the timer to produce a switch. One of the paper clips was attached to the clock face as seen in Figure 2 and has a diameter of approximately 0.03 inch.

If similar evidence items are recovered some components of Item 1 are suitable for comparison.

# **Switch (Device 1):**



Figure 10, Item 1, Kitchen timer face

Figure 11, Kitchen timer face rear.

Submitted in Item 1 (Figure 10 and Figure 11) were pieces of one (1) kitchen timer. On the face of the kitchen timer is one (1) paper clip that is hot glued in place secured at the zero mark and the thirty mark. Attached to one end of the paper clip is an alligator clip with a red insulated wire attached to it. The wire runs from the zero side of the timer to the positive side of the 9 volt snap connector.

The face of the timer is white with black colored numbering from "0 to 59" in a counter clock wise direction. The face has tick marks for each minute and actual numbers every 5th tick mark. There are instructions on the timer face: "1. Turn fully clock wise", "2. Then select time". The face of the timer has an approximate diameter of 2.41 inches and a thickness of .04 inch. The

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base of the timer (Figure 7) is silver metal with mechanical components above and below a black casing held in place by three Philips head screws.

Modified timers as describe above can be used as a switch in an IED.

If similar evidence items are recovered some components of Item 1 are suitable for comparison.

# **Ignitor (Device 1):**

Submitted in Item 1 was one piece of steel wool that still had two alligator clips attached to it (Figure 9). Steel wool is a conductor of electrical energy and is suitable to be used as an ignitor in an IED. When electrical current is applied to the steel wool, it can glow and begin to burn. If the steel wool is in contact with a low explosive material it can provide enough heat to cause a low explosive material to ignite and burn.

A sample of the steel wool was separated from Item 1 and tested. The steel wool glowed and burned when hooked up to a new 9V battery.

#### **DEVICE 2**

# **Explosive Main Charge (Device 2):**

Powder from Device 2, Item 10-3 contained the low explosive black powder. It consisted of the oxidizer potassium nitrate, the fuel sulfur, and a fuel consistent with charcoal. Other minor components were also detected but not further identified. The powder was tested for thermal susceptibility (Flame test) with positive results.

For detailed information of the chem	icals analyses conducted on the powder, see the FBI
Laboratory Report of	dated January 16, 2021, Report number

When properly ignited by a suitable source of heat, low explosives are designed to deflagrate and generate gases. When properly confined in a container such as a can, bottle, or pipe the gases generate pressure on the container walls and cause an explosion of the container.

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# **Main Charge Container (Device 2):**



Figure 12 Item 10, Pipe nipple with solid end cap

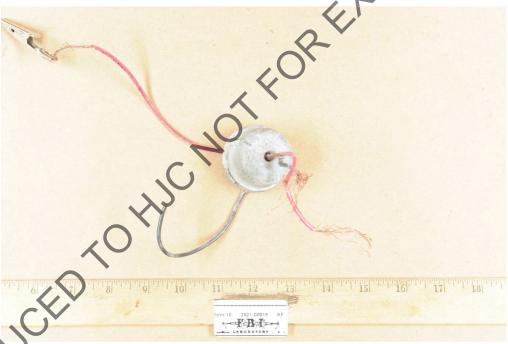


Figure 13, Item 11, End cap with priming hole.

Item 10 (Figure 12 and Figure 13) consisted of one (1) silver colored metal pipe nipple with two (2) dark gray colored end caps. These items together were utilized as a main charge container. The pipe nipple was threaded on both ends.

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Present in one of the end caps (Item 10) is a hole measuring approximately 0.22 inch in diameter. This hole, commonly referred to as a priming hole, is a modification made to the end cap to allow for the insertion of the fuzing system into the container.

The pipe nipple in Device 2 had an approximate length of 8.0 inches with an inner diameter of approximately 1.0 inch. The following manufacturer information etched into the pipe nipple; "M" and below that CHINA" which is visually consistent with Mueller Industries product labeling. The Device 2 pipe nipple (Item 10) is visually consistent with the pipe nipple in Device 1 (Item 3).

The end caps associated with the pipe nipple measured approximately 1.18 inches in height and an approximate inner diameter of 1.13 inches. Each cap had some or all of the following manufacturer information etched into it; "M", "FM", "CHINA", and "1" which is visually consistent with Mueller Industries product labeling.

The three (3) end caps associated with the pipe nipples, Item 4 (Device 1) (One (1) end cap) and Item 10 (Device 2) (Two (2) end caps) are consistent with each other measuring approximately 1.18 inches in height and an approximate inner diameter of 1.13 inches. All of the end caps have all or some of the identical manufacture information etched into the top of the cap; "M", "FM", "CHINA", and "1". This information is visually consistent with Mueller Industries product labeling. If similar evidence items are recovered some components of Item 10 are suitable for comparison.

# **Fuzing System (Device 2):**

Present in Device 2 (Figure 14, Figure 15 and Figure 16) are the disassembled components of an electrical fuzing system. An electrically activated fuzing system consists of a power source, conductors, switch(es), and load. All of these items are present in Device 2.



Figure 14, Item 10, Pieces of the fuzing system.

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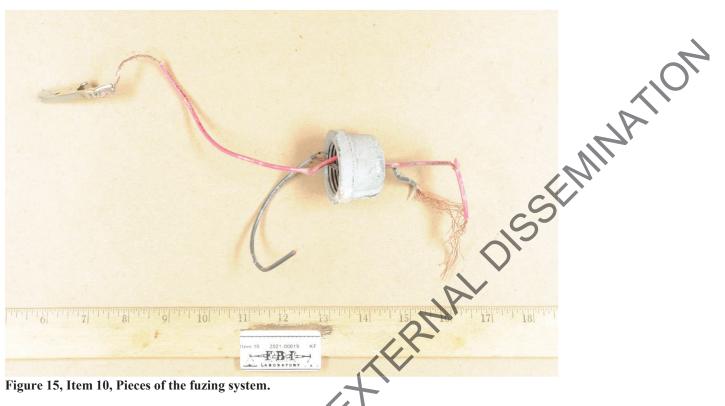
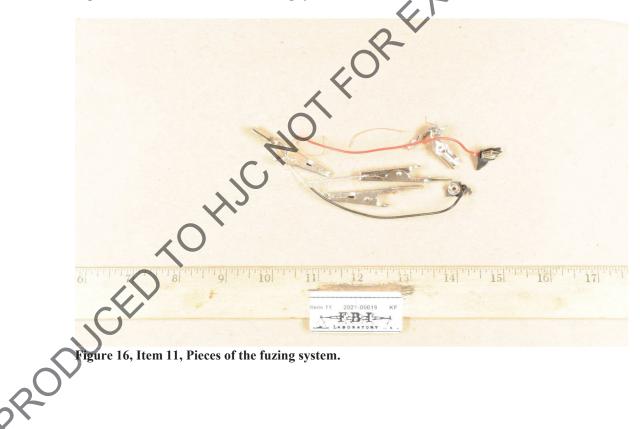


Figure 15, Item 10, Pieces of the fuzing system.



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# **Power Source (Device 2):**

Present in Item 11 (Figure 17 and Figure 18) is one (1) fragmented Energizer 9 volt battery no measured voltage was able to be obtained due to the fragmented nature of the item.



Figure 17, Item 11, 9 volt battery.

Figure 18 Item 11, 9 volt battery.

Manufacturer information on the battery is as follows: "ENERGIZER", "9V", "12-2023", "ALKALINE BATTERY", "9V SIZE – FORMAT – 522 OU22 – 6AM6 -9V". Item 11 is visually consistent with the battery seen in Item 1. If similar evidence items are recovered some components of Item 11 are suitable for comparison.

# Conductors (Device 2)

Present in Device 2, Item 10 and Item 11 (Figure 14, Figure 15 and Figure 16) are conductor components listed below.

Two (2) lengths of insulated multi-strand wire, one (1) length of black insulated multi-strand wire and one (1) length of red insulated multi-strand wire. The two (2) wires as submitted were running through the priming hole of the end cap (Figure 15).

Both wires are stripped at the ends consisting of multi-stranded copper colored wire. The red insulated wire is approximately 14.5 inches in length and the black insulated wire is approximately 10 inches in length. The red wire still has an alligator clip partially attached to one end of it.

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The red insulated multi-strand copper colored wire has the following manufacturer information printed on the insulation is as follows: "...INE AND OIL RESISTAN...... AWM 600V VW-1 --..... NYLON OR TWN ... 600V FT1...AN...C ---RoHS" and "SOUTHWIRE E51583 F(UL) (AWG 14) 2,082m...C4 TYPE MTW OR THWN OR.....".

The single black insulated multi-strand copper colored wire is approximately 7.5 inches in length with an approximate AWG of 14. Information printed on the black insulation is as follows: "...RESISTANT.....AWM 6...OLTS.......ON OR TWN.....00V FT1 NoM-ANCE 80C---RoHS SOUTHWIRE E51583.E (UL) (AWG 14) 2".

Present in Item 11 (Figure 16) are the disassembled remains of a 9 volt snap connector consisting of a black vinyl material covering two (2) metal terminals. Connected to the two (2) terminals was two (2) insulated multi-strand silver colored wires, (one black in color insulated wire and one red in color insulated wire). Both wires have an approximate length of 6.0 inches with an approximate AWG of 24. The following manufacturer information was on the black insulated wire: "A... 80 C 300V" and the following manufacturer information was on the red insulated wire: "AWM...E...22..14382.."

Also present in Item 10 are two (2) silver color alligator clips and in Item 11 are three (3) silver in color alligator clips, all similar in dimensions with an overall approximate length of 2.03 inches and an approximate width of 0.29 inch. One (1) of the alligator clips in Item 11 was still attached to the red insulated wire and the other three appeared to of been separated from the wires.

Item 11-2 contained two (2) silver colored paper clips. Paper clips can be used as conductors in conjunction with the timer to produce a switch.

The red insulated wire, the black insulated wire, the 9V battery snap connector, the alligator clips, and the paper clips associated with Devices 2 are visually consistent with the corresponding items found in Device 1.

If similar evidence items are recovered some components of Item 10 and Item 11 are suitable for comparison.

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#### Switch (Device 2):



Figure 19, Item 11 Face of Kitchen timer.

2MAL DISSEMINATION 2MAL DISSEMINATION (CONTRACTOR OF CONTRACTOR OF CONTR Submitted in Item 11 and Item 12-1 (Figure 14 and Figure 19) were fragmented pieces of one (1) kitchen timer. The face of the timer is white with black colored numbering from "0 to 59" in a counter clock wise direction. The face has tick marks for each minute and actual numbers every 5th tick mark. There are instructions on the timer face; "1. Turn fully clock wise", "2. Then select time". The face of the timer has an approximate diameter of 2.41 inches and a thickness of .04 inch. This timer face is visually consistent with the timer used in Device 1.

Modified timers as describe above can be used as a switch in an IED. If similar evidence items are recovered Item 11 and Item 12-1 are suitable for comparison.

# **Ignitor (Device 2):**

Item 10-3 was one piece of steel wool that was in one of the end caps. Steel wool is a conductor of electric energy and is suitable to be used as an ignitor in an IED. When electrical current is applied to the steel wool, it can glow and begin to burn. If the steel wool is in contact with a low explosives material it can provide enough heat to cause the low explosive material to ignite and burn.

A sample of the steel wool was separated from Item 10-3 and tested. The steel wool glowed and burned when hooked up to a new 9V battery.

#### Miscellaneous:

The following were located near Device 1 and were not part of the device.

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Figure 20, Item 1-1 small circular tin.

SSEMINATION Item 1-1 (Figure 20), consisted of a small circular tin, similar to a small candle, with a diameter of approximately 1.5 inches and a height of .40 inch. It contained a white waxy powder material.

Powder from Item 1-1 was tested for the presence of explosives with negative results. For detailed information of the chemicals analyses conducted on the powder, see the FBI Laboratory Report of Jason V. Miller dated January 12, 2021, Report number 2021-00019-2. (JVM)



Figure 21, Item 1-3 Rubber tube.

Item 1-3 (Figure 21) was a rubber tube, with a blue and white plastic ends. The outer diameter of the rubber was approximately 0.56 inch. The inner tube had a small plastic.

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Figure 22, Item 5 Piece of fabric.

Present in Item 5 (Figure 22) was one piece of fabric material.

The following items were located near Device 2 and were not part of the device.

Item 12 multiple pieces of black plastic and metal components. Black plastic pieces were part of black container (Mouse trap) that was near the device.

Any remaining items listed in this report were not analyzed for the hazardous devices examinations and were either determined to have no forensic value or were examined by Forensic Examiners of other disciplines commensurate with their area of expertise.

# **SECTION 3**

A kitchen timer was purchased by the FBI Explosives unit as an exemplar. This kitchen timer was purchased at Walmart and has a similar appearance. Based on this Device Examiner's opinion, it appears that kitchen timers used in Device 1 and Device 2 were removed from their housing unit and modified to produce a timed improvised switch. The exemplar face of the kitchen timer and internal working components are visually and dimensionally similar to the kitchen timers from Device 1 and Device 2. The kitchen timer was a 'MAINSTAYS TIMER" and has the same directions printed on the face of the dial; "1. TURN FULLY CLOCKWISE", "2. THEN SELECT TIME" and has timer increments from 0 to 59 minutes. Below are three photos of the exemplar timer. Figure 23 is the original packaging, housing unit, clock face and inner working of the kitchen timer. Figure 24 and Figure 25 are the front and back of the packaging for the "MAINSTAYS TIMER".

The items from Device 1, recovered at the DNC and Device 2, recovered at the RNC are visually and dimensionally similar to each other. The devices have similar construction, components and main charge powders. Below is a comparison chart (Figure 26) of the items from each device.

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# Exemplar Images:







Figure 24 Packaging



Figure 25 Packaging back

# Comparison Chart:

Comparison Chart.	/ X	
	Device 1 DNC	Device 2 RNC
Main Charge Powder	Item 2	Item 9, 10-1, 10-3
Pipe Nipple (Container)	Item 3	Item 10
Pipe End Caps (priming hole)	Item 4	Item 10
9 Volt snap connector	Item 1	Item 11
Red wire	Item 1	Item 10
Black wire	Item 1	Item 10
Alligator clips	Item 1	Item 11
Steel Wool (Initiator)	Item 1	Item 10-3
Paper Clips	Item 1	Item 11
Battery 9 Volt Energizer	Item 1	Item 11
Timer	Item 1	Item 11
Timer Exemplar	Item 1	Item 11

Figure 26 Comparison Chart.

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# **METHODS:**

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- visual examinations of observable, physical characteristics;
- visual comparison examinations of observable, physical characteristics;
- microscopical examinations of observable, physical characteristics;
- microscopical comparison examinations of observable, physical characteristics;
- measurements of physical characteristics;
- measurement comparison examinations of physical characteristics;
- visual examinations of photographs;
- visual examinations of x-ray images, and
- reviews of references.

# **GENERAL LIMITATIONS:**

- Item source identifications that refer to a specific distributor or manufacturer have not been confirmed with that distributor or manufacturer unless otherwise stated in this report.
- The physical characteristics, such as, but not limited to, material type, shape, and color of all evidentiary items described in the Results of Examination section of this report are based on visual and/or microscopical observations, unless otherwise noted. Other parameters such as, but not limited to, distances, angles, and voltages associated with individual evidentiary items described in the Results of Examination section of this report are based on physical measurements and are approximate, unless otherwise noted. Should a more complete characterization of these items be required, additional examinations can be requested of the appropriate forensic discipline. Diagrams such as, but not limited to, drawings and schematics are not to scale, unless otherwise noted.

# SPECIFIC INTERPREDATIONS AND LIMITATIONS:

Due to the absence or alterations of specific manufacturer or other unique markings on items of evidence, conclusive identification of the source of an item may not always be effected in every case. Conclusive determinations of the exact design and functioning of a rendered safe or disassembled improvised explosive device may not be effected in every case due to the condition of the components.

# Remarks:

For questions about the content of this report, please contact Forensic Examiner Kevin D. Finnerty at 703-632-7022 or kdfinnerty@fbi.gov.

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Explosives Unit

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