

FBI Laboratory

2501 Investigation Parkway
Quantico, Virginia 22135

REPORT OF EXAMINATION

To: Tampa

Date: October 29, 2007

Case ID No: 315N-TP-70338 -649

Lab No.: 070830006 RS GG

Reference: Communication dated August 29, 2007

Your No.:

Title: AHMED ABDELLATIF SHERIF ADBDALLAH MOHAMED;
IT - AL QAEDA
NON-USPER

YOUSSEF SAMIR MEGAHEB;
IT - AL QAEDA
USPER

Date specimens received: August 30, 2007

The following specimen was examined in the Explosives Unit:

Q28 Plastic Wal-Mart container containing 2 solid pieces of brown substance,
and one coffee filter (Your 1B147 Item #1 Barcode E4218823)

This report contains the results of the chemistry examinations performed in the Explosives Unit.

Results of Examinations:

Specimen Q28 (brown material) is a pyrotechnic mixture composed of potassium nitrate and sugar. This mixture is also considered a low explosive. Specimen Q28 is consistent with the brown material (in specimens Q1 and Q2) previously analyzed in the report dated August 13, 2007 for Laboratory number 070806002.

The specimen was examined using the following techniques: visual inspection, optical microscopy, spot test, burn test, x-ray powder diffraction, ion chromatography, gas chromatography-mass spectrometry, gas chromatography with electron capture detection, and ~~Fourier transform infrared spectroscopy.~~

Remarks:

The phrase pyrotechnic mixture is a general term that refers to low explosives composed of an oxidizer and a fuel. Examples of products using pyrotechnic mixtures include fireworks, black powder, and road flares.

For questions about the status of remaining forensic examinations, please contact Request Coordinator Richard Stryker at (703) 632-7640. Please contact the examiner below for any questions about the content of this report.



Ronald L. Kelly
Explosives Unit
(703) 632-7641

This report contains the opinions/interpretations of the examiner who issued the report.



FBI Laboratory

2501 Investigation Parkway
Quantico, Virginia 22135

REPORT OF EXAMINATION

To: Tampa

Date: December 5, 2007

Case ID No.: 315N-TP-70338 - 705
315N-TP-70339 - 617

Lab No.: 070806002 RS GG

Reference: Communication dated August 9, 2007

Your No.:

Title: AHMED ABDELLATIF SHERIF ABDALLAH MOHAMED;
IT - AL QAEDA
NON-USPER

YOUSSEF SAMIR MEGAHEDE;
IT - AL QAEDA
USPER

Date specimens received: August 6, 2007

The following specimens were received or examined in the Explosives Unit:

- Q1 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q2 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q3 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q4 Safety fuse and plastic bag (Your Item #3 - 1B6)
- Q5 Wooden dowel (Your Item #4 - 1B7)
- Q6 Wooden dowel (Your Item #4 - 1B7)

- Q7 Wooden dowel (Your Item #4 - 1B7)
- Q8 Wooden dowel (Your Item #4 - 1B7)
- Q9 PVC pipe containing unknown substance (Your Item #5 - 1B10)
-
- Q10 Box of Federal ammunition (Your Item #6 - 1B12)
- Q11 Plastic gasoline can containing unknown liquid (Your Item #7 - 1B13)
- Q12 Gun cleaning kit and plastic bag (Your Item #12)
- Q13 Gun cleaning kit (Your Item #20)
- Q14 Gun cleaning kit, rope, piece of metal, double-sided tape and electrical tape (Your Item #20)
- Q15 Screwdriver set (Your Item #20)
- Q16 PVC pipe fragments and plastic debris (Your Item #21)
- Q17 Plastic two-liter bottle containing unknown liquid (Your Item #23 - 1B28)

This is an amended report containing the results of the chemistry examinations performed in the Explosives Unit as previously reported on August 13, 2007. The report was amended for the purposes of removing classification markings and reflect the change in the Case ID Numbers.

Results of Examinations:

Specimens Q1, Q2, and Q3 contained layered materials consisting of a clay-like material consistent with cat litter and a pyrotechnic mixture composed of potassium nitrate and sugar. The sugar was found in two forms, a white powder and a brownish color with the latter being consistent with "Karo" syrup, a sugar-based product.

Specimen Q9 contained only the cat litter material.

Greenish-blue material present on specimen Q6 was consistent with the cat litter detected in the above specimens.

Specimen Q4 is safety fuse containing a potassium perchlorate-based pyrotechnic core. The propellant within one round of ammunition from specimen Q10 was analyzed and identified as a double-base smokeless powder.

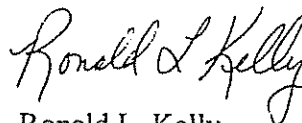
~~Specimen Q11 (red plastic container) contained gasoline.~~

Specimen Q17 (a dark liquid in a clear plastic bottle) was consistent with a cola soft drink containing a small amount of ethanol (alcohol).

The specimens were examined using all or some of the following techniques: visual inspection, optical microscopy, spot test, burn test, x-ray powder diffraction, scanning electron microscopy with energy dispersive x-ray analysis, gas chromatography-mass spectrometry, gas chromatography with electron capture detection, Raman spectroscopy, and Fourier transform infrared spectroscopy.

Remarks:

No chemical examinations were conducted on specimens Q5, Q7, Q8, and Q12 through Q16. For questions about the status of remaining forensic examinations, please contact SSA Richard Stryker at (703)-632-7640. Please contact the examiner below for any questions about the content of this report.



Ronald L. Kelly
Explosives Unit
(703) 632-7641

This report contains the opinions/interpretations of the examiner who issued the report.



FBI Laboratory

2501 Investigation Parkway
Quantico, Virginia 22135

REPORT OF EXAMINATION

To: Tampa

Date: January 4, 2008

Case ID No.: 315N-TP-70338 -- 739
315N-TP-70339

Lab No.: 070806002 RS
070810006
070815005
070815010
070816004
070830006
070830007
070905010
070906010
071016010
071108014
071130008

Reference: Communication dated August 9, 2007

Your No :

Title: AHMED ABDELLATIF SHERIF ADBDALLAH MOHAMED;
IT - AL QAEDA
NON-USPER

YOUSSEF SAMIR MEGAHEH;
IT - AL QAEDA
USPER

Date specimens received: See below

THE FOLLOWING SPECIMENS WERE RECOVERED FROM A SEARCH OF A VEHICLE ON AUGUST 4, 2007 IN GOOSE CREEK, SOUTH CAROLINA, SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED IN THE FBI LABORATORY ON AUGUST 6, 2007, AND ASSIGNED LABORATORY NUMBER 070806002:

- Q1 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q2 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q2.1 Hair recovered from Q2
- Q2.3 Hair from Q2.1
- Q3 PVC pipe containing unknown substance (Your Item #2 - 1B5)
- Q4 Safety fuse and plastic bag (Your Item #3 - 1B6)
- Q5 Wooden dowel (Your Item #4 - 1B7)
- Q6 Wooden dowel (Your Item #4 - 1B7)
- Q7 Wooden dowel (Your Item #4 - 1B7)
- Q8 Wooden dowel (Your Item #4 - 1B7)
- Q9 PVC pipe containing unknown substance (Your Item #5 - 1B10)
- Q10 Box of Federal ammunition (Your Item #6 - 1B12)
- Q11 Plastic gasoline can containing unknown liquid (Your Item #7 - 1B13)
- Q12 Gun cleaning kit and plastic bag (Your Item #12)
- Q13 Gun cleaning kit (Your Item #20)
- Q14 Gun cleaning kit, rope, piece of metal, double-sided tape and electrical tape (Your Item #20)
- Q15 Screwdriver set (Your Item #20)

Q16 PVC pipe fragments and plastic debris (Your Item #21)

Q17 Plastic two-liter bottle containing unknown liquid (Your Item #23 - 1B28)

THE FOLLOWING SPECIMENS WERE RECOVERED FROM A SEARCH OF A VEHICLE ON AUGUST 4, 2007 IN GOOSE CREEK, SOUTH CAROLINA, SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED IN THE FBI LABORATORY ON AUGUST 10, 2007, AND ASSIGNED LABORATORY NUMBER 070806002:

Q18 Right-Hand "Oceanic" glove magenta/black in color (Your 1B24 Barcode E4218774)

Q19 Left-Hand "Oceanic" glove magenta/black in color (Your 1B25 Barcode E4218775)

THE FOLLOWING SPECIMENS WERE RECOVERED FROM A SEARCH OF A VEHICLE ON AUGUST 4, 2007 IN GOOSE CREEK, SOUTH CAROLINA, SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED IN THE FBI LABORATORY ON AUGUST 17, 2007, AND ASSIGNED LABORATORY NUMBER 070806002:

Q20 Four (4) disposable lighters (Your 1B31 Barcode E4218736)

THE FOLLOWING SPECIMENS WERE RECOVERED FROM A SEARCH OF A VEHICLE ON AUGUST 4, 2007 IN GOOSE CREEK, SOUTH CAROLINA, SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED IN THE FBI LABORATORY ON AUGUST 10, 2007, AND ASSIGNED LABORATORY NUMBER 070806002:

K1 One Disintegrating Avon round shell - Lot# LTE03G006-001 (Your 1B2 Barcode E4218708)

THESE SPECIMENS WERE RECOVERED AS A RESULT OF A SEARCH OF A RESIDENCE LOCATED AT 4959 ANNISTON CIRCLE, TAMPA, FLORIDA ON AUGUST 6, 2007, WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED AT THE LABORATORY ON AUGUST 10, 2007, AND ASSIGNED LABORATORY NUMBER 070810006:

Q1 Remote Control Toy Boat in original box (Your 1B-9)

Q2 S-Shock watch disassembled (Your 1B-8 Barcode E04017604)

THE FOLLOWING EVIDENCE WAS RECOVERED IN TAMPA, FL AS A RESULT OF A SEARCH, SUBMITTED TO THE LABORATORY UNDER COVER OF COMMUNICATION DATED AUGUST 11, 2007, RECEIVED IN THE LABORATORY ON AUGUST 15, 2007, BEING ASSIGNED LABORATORY NUMBER 070815005:

Q21 One (1) HP Altec Lansing laptop computer (Your 1B Barcode E4218710)

THE FOLLOWING SPECIMENS WERE FORWARDED TO FBI TO ASSIST WITH FORENSIC EXAMINATIONS RELATING TO A SEARCH OF A VEHICLE ON AUGUST 4, 2007 IN GOOSE CREEK, SOUTH CAROLINA, SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 9, 2007, WERE RECEIVED IN THE FBI LABORATORY ON AUGUST 15, 2007, AND ASSIGNED LABORATORY NUMBER 070815010:

K2 One (1) FD-249 fingerprint card of YOUSSEF SAMIR MEGAHED

K3 One (1) FD-249 fingerprint card of AHMED ABDELLATIF SHERIF ABDALLAH MOHAMED

NE1 One (1) CD labeled "BOMB SHOCK"

NE2 One (1) CD labeled "INSTRUCTION VIDEO FOR REMOTE CONTROL DEVICE" and two page translation

THESE SPECIMENS WERE SUBMITTED TO THE LABORATORY DIVISION UNDER COVER OF COMMUNICATION DATED AUGUST 14, 2007, WERE RECEIVED IN THE LABORATORY ON AUGUST 16, 2007, AND WERE ASSIGNED LABORATORY NUMBER 070816004:

Q23 USB card reader, Optimum CD, mouse (Your 1B11 Item 8, Barcode E4218728)

Q24 One (1) black CD case containing thirty-one (31) CDs, and one (1) case containing nine (9) CDs, and one clear CD protector (Your 1B17 Item 18 Barcode E4218730)

Q25 One (1) Sony 1GB Thumb Drive (Your 1B20 Item 27 Barcode E4218760)

THE FOLLOWING SPECIMENS WERE FORWARDED TO FBI LABORATORY FOR EXAMINATION, BEING RECEIVED IN THE LABORATORY ON AUGUST 30, 2007 AND ASSIGNED LABORATORY NUMBER 070830006:

- Q26 Black and Decker cordless drill in plastic packaging including a Wal-Mart shopping bag (Your 1B22 Item #14 Barcode E4218719)
- Q27 Pro-Seal Red Hi-Temp RTV Silicone Instant Gasket (Your 1B24 Barcode E4218827)
- Q28 Plastic Wal-Mart container containing 2 solid pieces of brown substance, and one coffee filter (Your 1B147 Item #1 Barcode E4218823)
- Q29 Swab taken from plastic Wal-Mart container (Your Item #2 Barcode E4218824)
- K2 Known major case prints taken from Ahmed Abdellatif Sherif Mohammed
- K3 One (1) CD containing digital photograph images of Ahmed Abdellatif Sherif Mohammed
- K4 Oral swab taken from Ahmed Abdellatif Sherif Mohammed (Your 1B148 Item #1 Barcode E4218826)
- K5 Hair samples taken from Ahmed Abdellatif Sherif Mohammed (Your 1B148 Item #2 Barcode E4218826)

THE FOLLOWING SPECIMENS WERE FORWARDED TO FBI LABORATORY FOR EXAMINATION, BEING RECEIVED IN THE LABORATORY ON AUGUST 30, 2007 AND ASSIGNED LABORATORY NUMBER 070830007:

- K4 Major case latent prints taken from Youssef Samir Megahed
- K5 One (1) CD containing digital photograph images of Youssef Samir Megahed
- K6 Oral swab sample taken from Youssef Samir Megahed (Your 1B20 Item #3 Barcode E4218825)

K7 Hair samples taken from Youssef Samir Megahed (Your 1B20 Item #4
Barcode E4218825)

~~THESE SPECIMENS WERE RECOVERED AND FORWARDED TO THE FBI~~
~~LABORATORY AS A RESULT OF A SEARCH OF A RESIDENCE LOCATED AT 2107 E.~~
~~NEDRO ROAD, TAMPA, FLORIDA ON 08/10/2007 AND 08/13/2007 VIA COVER OF~~
~~COMMUNICATION DATED 08/30/2007, RECEIVED IN THE LABORATORY ON~~
~~09/05/2007, AND ASSIGNED LABORATORY NUMBER 070905010:~~

- Q1 Wires, plastic pen cap, metal pieces (Your 1B64 Item #3, Barcode E04017644 found in drawer 31 of dresser)
- Q2 Red wire pieces, pieces of duct tape, piece of tin foil, misc hairs, piece of black cloth, piece of white plastic from carpet (Your 1B68, Item 37, Barcode E0417648)
- Q3 Hairs (Your 1B70 Item #9, Barcode E04017650, found in drawer #2 of dresser)
- Q4 Liner from drawer #3 (Your 1B71, Item #10, Barcode E04017651)
- Q5 Cutout piece of carpet (Your 1B72, Item #11, Barcode E04017652, taken from near door frame)
- Q6 Cutout piece of carpet (Your 1B73, Item #12, Barcode E04017653, found near bed)
- Q7 Liner from drawer #2 (Your 1B74, Item #13, Barcode E04017654)
- Q8 Bathroom mat with stains (Your 1B75, Item #14, Barcode E04017655)
- Q9 Liner from drawer #1 (Your 1B76, Item #15, Barcode E04017656)
- Q10 Bathroom mat (Your 1B77, Item #16, Barcode E04017657)
- Q11 Foot Booties used by SAs during search (Your 1B78, Item #17, Barcode E04017658)
- Q12 Swabbing for residue control sample (Your 1B79, Item 18A, Barcode E04017659)
- Q13 Swabbing for residue (Door) (Your 1B79, Item 18B, Barcode E04017659)
- Q14 Swabbing for residue (Baseboard) (Your 1B79, Item 18C, Barcode E04017659)

Q15 Table runner (Your 1B80, Item #19, Barcode E04017660)

Q16 Comforter and bed pillows (Your 1B62, Item #1)

THESE SPECIMENS WERE RECOVERED AND FORWARDED TO THE FBI LABORATORY AS A RESULT OF A SEARCH OF A RESIDENCE LOCATED AT 2107 E. NEDRO ROAD, TAMPA, FLORIDA ON 08/10/2007 AND 08/13/2007 VIA COVER OF COMMUNICATION DATED 08/30/2007, RECEIVED IN THE LABORATORY ON 09/07/2007, AND ASSIGNED LABORATORY NUMBER 070905010:

Q17 Glass table top (Your 1B81, Item #20)

Q18 Carpet from bedroom (Your 1B63, Items 2A, 2B)

Q18.1 Miscellaneous debris from Q18

Q18.1.1 One (1) screw from Q18.1

Q18.1.2 Black wire insulation fragment from Q18.1

Q18.1.3 Two (2) plastic tips from Q18.1

THE FOLLOWING SPECIMENS WERE RECEIVED AT THE FBI LABORATORY ON 08/23/2007, AND WERE ASSIGNED LABORATORY NUMBER 070906010:

NE3 One (1) CD containing images from Search dated 8/11/2007

NE4 One (1) CD containing images from Ford Escort dated 8/14/2007

NE5 One (1) CD containing images from Gray Lexus dated 8/15/2007

THE FOLLOWING SPECIMENS WERE OBTAINED PURSUANT TO SEARCH WARRANT OR CONSENSUAL SEARCH, WERE RECEIVED AT THE FBI LABORATORY ON 10/16/2007, AND WERE ASSIGNED LABORATORY NUMBER 071016010:

Q1 One (1) Black and Decker charger and one HP AC adapter and cord (Your Item #17, 1B14, E4218729)

- Q3 One (1) Street Pilot c330 box and contents (No GPS Device) to include one (1) white envelope with instruction manual, one (1) Garmin USB drivers CD-Rom, one (1) USB cable, one (1) black mounting piece for GPS, one (1) Garmin plastic screen protector, one (1) section of pink bubble-wrap-material, one (1) cardboard-piece to hold-GPS in-box (Your Item #11, 1B16, E4218716)
- Q4 One (1) plastic WalMart bag, one (1) can Hoppe's gun solvent, one (1) can Gun Scrubber solvent degreaser, one (1) container Blue + Rust remover, one (1) can Breakfree cleaner, one (1) can REM Oil, one (1) can Nitro-Solvent Gun Cleaner, one (1) container Gunslick Copper-Klenz copper remover, one (1) 40X bore Cleaner (Your Item #13, 1B21, E4218718)
- Q5 One (1) WalMart plastic bag, one (1) package of Cove V Guncleaning Patches, one (1) package of Outons Bulk Patches (Your Item #15, 1B23, E4218720)
- Q8 One Salter brand digital scale (Your Item #2, 1B107, E04018479)
- Q9 One (1) five pound bag Organic Traditions Garden Sulfur contained inside plastic bag (Your Item #2, 1B111)
- Q9.1 Residue from plastic bag
- Q9.2 One (1) Plastic bag
- Q10 One (1) measuring cup (Your Item #6, 1B112, E04018484)
- Q11 One (1) red colored rag (Your Item #7, 1B113, E04018485)
- Q12 Five (5) filter bags (Your Item #8, 1B114, E04018486)
- Q12.1 One (1) vacuum filter (Your Item #8, 1B114, E04018486)
- Q12.2 One (1) vacuum filter (Your Item #8, 1B114, E04018486)
- Q12.3 One (1) vacuum filter (Your Item #8, 1B114, E04018486)
- Q12.4 One (1) vacuum filter (Your Item #8, 1B114, E04018486)
- Q13 One (1) swab of digital scale (Your Item #9, 1B115, E04018487)

- Q14 One (1) swab from measuring cup (Your Item #10, 1B116, E04018488)
- Q15 Eight (8) lengths of PVC pipe (Your Item, #11, 1B117)
- Q15.1 Two (2) latent lifts
- Q16 One (1) gun sock (Your Item, #11, 1B117)
- Q17 One (1) metal rod (Your Item, #11, 1B117)
- Q18 One (1) roll of brown paper (Your Item, #11, 1B117)
- Q19 One (1) section of PVC pipe (Your Item #1, 1B142, E04017725)
- Q19.1 Residue from PVC pipe
- Q20 One (1) PVC pipe wrapped in aluminum foil and held in place with duct tape (Your 1B143, E04017726)
- Q20.1 Residue from PVC pipe
- Q21 Aluminum foil (Your Item #3, 1B144, E04017727)
- Q22 Plastic pieces and one (1) metal spring (Your Item #4, 1B145, E04017728)
- Q23 One (1) Circuit board (Your Item 35, 1B146, E04017729)
- Q23.1 Residue (Your Item 35, 1B146, E04017729)
- K1 One (1) control swab from digital scale swabbing (Your Item #9, 1B115, E04018487)
- K2 One (1) control swab from measuring cup swabbing
(Your Item #10, 1B116, E04018488)
- K3 One (1) FJ Cruiser Remote Control Vehicle (Your 1B164)
- K3.1 Ten (10) screws from K3
- K3.2 One (1) black wire from K3

K3.3 One (1) black wire from K3

K4 One copy of a WalMart receipt (Your 1B164)

THE FOLLOWING SPECIMENS WERE OBTAINED PURSUANT TO SEARCH WARRANT OR CONSENSUAL SEARCH, WERE RECEIVED AT THE FBI LABORATORY ON 10/17/2007, AND WERE ASSIGNED LABORATORY NUMBER 071016010:

Q2-Q2.1 Two (2) WalMart paper receipts (Your 1B15, E4218768)

Q6-Q6.1 Two (2) WalMart paper receipts (Your 1B25, E4218770)

Q7-Q7.22 Misc WalMart paper receipts (Your 1B29, E4218769)

THE FOLLOWING SPECIMENS WERE OBTAINED PURSUANT TO A SEARCH WARRANT OR CONSENSUAL SEARCH, WERE RECEIVED AT THE FBI LABORATORY ON 11/14/2007, AND WERE ASSIGNED FBI LABORATORY NUMBER 071016010:

Q24 One (1) roll of safety fuse in original packaging (Your 1B118)

Q25 One (1) roll of safety fuse in original packaging (Your 1B118)

Q26 One (1) roll of safety fuse in original packaging (Your 1B118)

Q27 One (1) roll of safety fuse in original packaging (Your 1B118)

Q28 One (1) roll of safety fuse in original packaging (Your 1B118)

Q29 One (1) roll of safety fuse in original packaging (Your 1B118)

Q30 One (1) roll of safety fuse in Ziploc Bag (Your 1B118)

Q31 One (1) roll of safety fuse in original packaging (Your 1B118)

THE FOLLOWING SPECIMENS WERE RECEIVED IN THE FBI LABORATORY ON NOVEMBER 8, 2007, AND ASSIGNED LABORATORY NUMBER 071108014:

- Q30 Blue wire fragments, black plastic fragment, small metal cap (Your 1B66)
- Q31 Powder Sample (Your 1B65)
- Q32 Powder Sample (Your 1B67)
- Q33 Powder Sample (Your 1B69)

THE FOLLOWING SPECIMENS WERE RECEIVED IN THE FBI LABORATORY ON NOVEMBER 30, 2007 AND ASSIGNED LABORATORY NUMBER 071130008:

- Q34 Plastic bag, Fireworks Safety Pamphlet, unopened pack of firecrackers, and partial pack of firecrackers (Your 1B-118)

This report contains the results of the device examinations performed in the Explosives Unit.

Results of Examinations:

This report has three primary sections. Section I contains information regarding the results of various potassium nitrate explosive mixture tests. Section II includes a narrative regarding information contained on two CDs submitted via electronic communication dated August 09, 2007 and assigned Laboratory number 070815010. Section III contains descriptive information on all remaining relevant physical evidence (detailed above) received and examined in the Explosives Unit

SECTION - I

POTASSIUM NITRATE EXPLOSIVE MIXTURE TESTS

Based on the discovery of three PVC pipes containing potassium nitrate explosive mixtures, a series of tests were conducted to evaluate the hazardous efficacy of various combinations of fuels (powdered sugar and Karo Syrup) and oxidizer (potassium nitrate-KNO₃). The tests were conducted on August 16, 2007, at Murphy Demolition range, located on the Quantico Marine Corps Base, Quantico, Virginia.

Ingredients which are consistent with those found in the submitted specimens Q1, Q2, and Q3 (FBI Laboratory number 070806002) were utilized in the following tests. These include, potassium nitrate, powdered sugar, Karo Syrup, cat litter, 4.5 inch lengths of PVC pipe with the

following dimensions (outer diameter - 1.31", inner diameter-1.18", wall thickness-.0825"), and green safety fuse.

Potassium-nitrate was mixed with either powdered sugar or Karo Syrup until a reasonable homogeneous mixture was obtained. The range (60/40, 70/30, and 80/20) of oxidizer (KNO₃) / fuel (powdered sugar or Karo Syrup) ratios were selected based on a reasonable range of what is commonly found in low explosive mixtures.

Each pipe was prepared in the following manner. The pipe was oriented vertically and cat-litter was poured into the pipe and compressed with a hammer striking a wooden dowel which was slightly smaller than the inner diameter of the PVC pipe. The cat litter was compressed to a thickness of approximately 1/2". Approximately 60 grams of the potassium nitrate explosive mixture was inserted into the open end of the PVC pipe and lightly tamped with the same wooden dowel. Cat litter was then poured into the open end and compressed to a thickness of approximately 1/2". A priming hole (approximately 1/4" in diameter) was drilled either in the middle of the PVC pipe where the potassium nitrate explosive mixture was located, or through one end of the cat litter end plug. Please refer to the accompanying chart for specific configurations. Approximately 4" of green safety fuse (approximately .119" in diameter) was inserted into the pre-drilled priming hole and secured in place with black electrical tape. Some of the PVC pipes had one wrap of duct tape over the cat litter end plugs. An electric match was taped to the end of the green safety fuse to facilitate the remote initiation of the safety fuse. Each PVC tube was placed under one sandbag to keep it in place during testing. The results of the testing are detailed below.

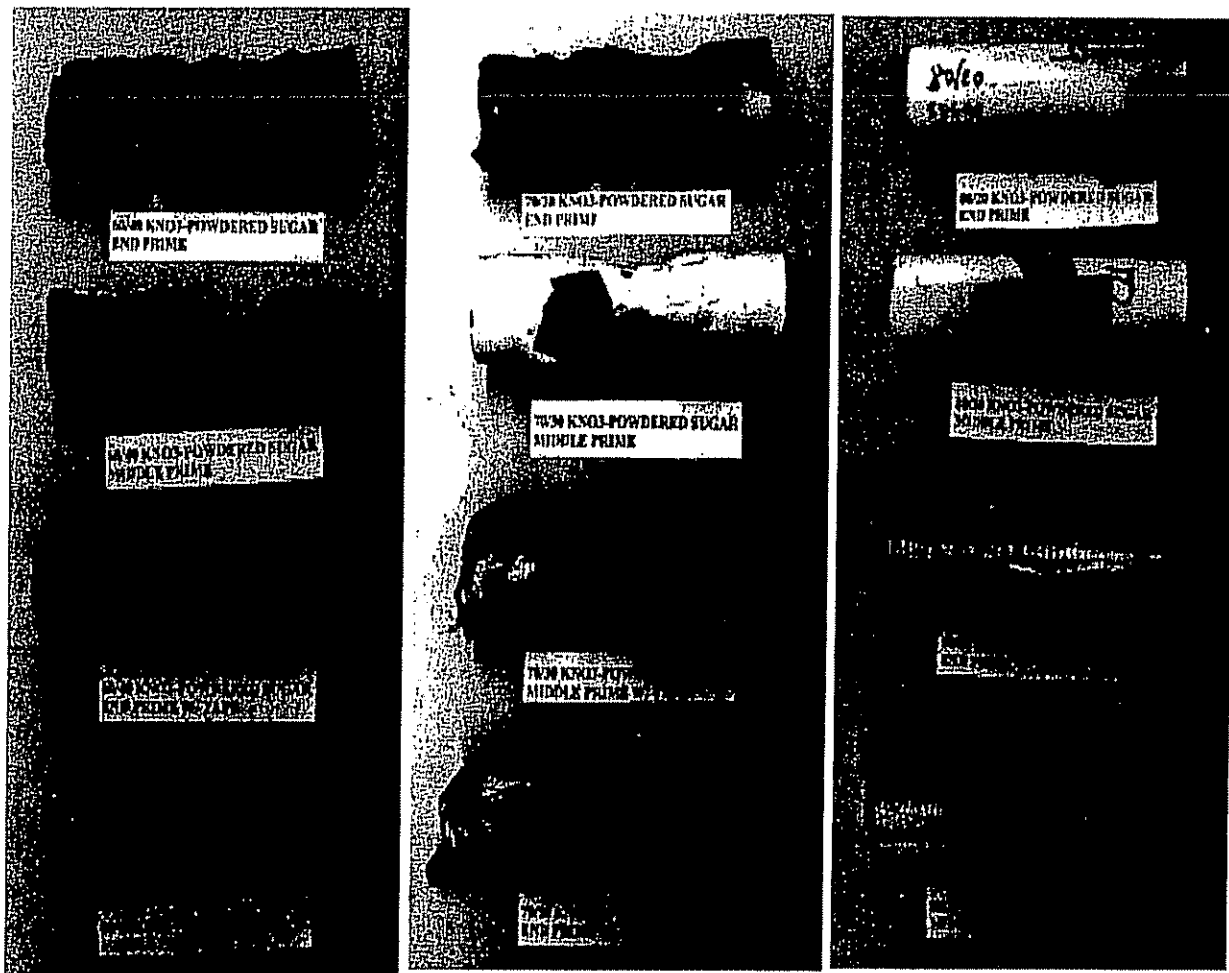
Test #	Configuration	Oxidizer (KNO ₃) / Fuel (Powdered Sugar) Ratio	Observed Results
1	End Primed	60 / 40	Forceful expulsion of smoke/gasses
2	Middle Primed	60 / 40	Forceful expulsion of smoke/gasses
3	End Primed w/ duct tape	60 / 40	Forceful expulsion of smoke/gasses
4	Middle Primed w/ duct tape	60 / 40	Forceful expulsion of smoke/gasses
5	End Primed	70 / 30	Forceful expulsion of smoke/gasses
6	Middle Primed	70 / 30	Forceful expulsion of smoke/gasses

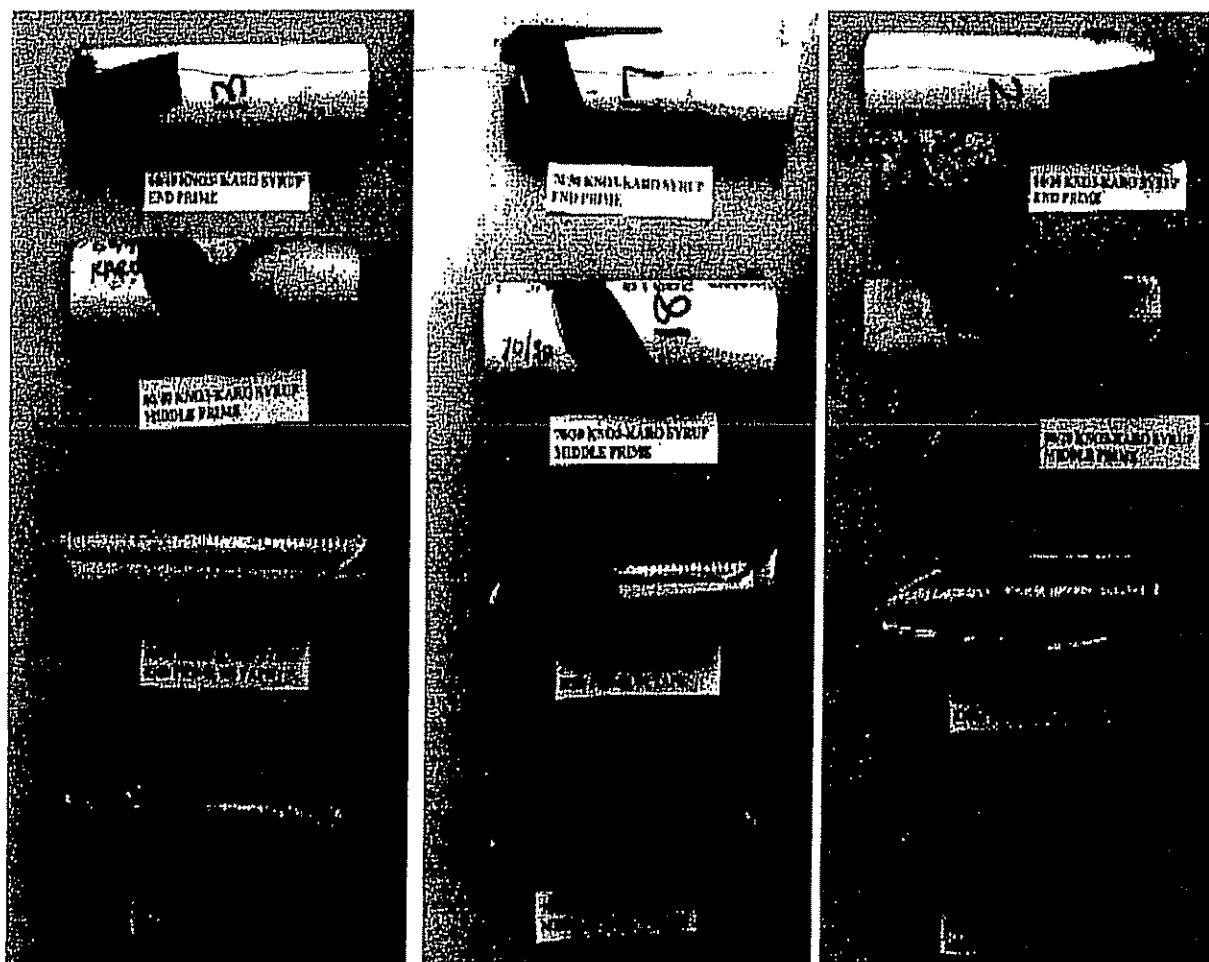
7	End Primed w/ duct tape	70 / 30	Forceful expulsion of smoke/gasses
8	Middle Primed w/ duct tape	70 / 30	Forceful expulsion of smoke/gasses
9	End Primed	80 / 20	Smoke produced
10	Middle Primed	80 / 20	Smoke produced
11	End Primed w/ duct tape	80 / 20	Smoke produced
12	Middle Primed w/ duct tape	80 / 20	Smoke produced

Test #	Configuration	Oxidizer (KNO ₃)/ Fuel (Karo Syrup) Ratio	Observed Results
13	End Primed	60 / 40	Smoke Produced
14	Middle Primed	60 / 40	Smoke Produced
15	End Primed w/ duct tape	60 / 40	Smoke Produced
16	Middle Primed w/ duct tape	60 / 40	Smoke Produced
17	End Primed	70 / 30	Smoke Produced
18	Middle Primed	70 / 30	Smoke Produced
19	End Primed w/ duct tape	70 / 30	Smoke Produced
20	Middle Primed w/ duct tape	70 / 30	Smoke Produced
21	End Primed	80 / 20	None

22	Middle Primed	80 / 20	None
23	End Primed w/ duct tape	80 / 20	None
24	Middle Primed w/ duct tape	80 / 20	None

The following photographs depict the remains of the PVC pipe sections after each respective filler was initiated.





CONCLUSIONS:

The KNO_3 / powdered sugar mixtures in the 60/40 and 70/30 ratios produced the most violent reactions. These ratios produced enough heat to cause the PVC tubes to melt and burn.

The KNO_3 /Karo syrup mixtures only resulted in the production of smoke, or in the case of the 80/20 ratio, no reaction. This may be due to insufficient mixing of the fuel and oxidizer, improper fuel/oxidizer ratio to support a reaction, or insufficient method of initiation (safety fuse).

The location of the priming hole (end vs. middle) and the addition of duct tape around the cat-litter end plugs did not seem to effect the results.

Redacted



Fingerprint Notification			NOTICE DATE January 07, 2008
CASE TYPE N400 Application For Naturalization			USCIS AW A 046 434 337
APPLICATION NUMBER SSC*001361325	RECEIVED DATE July 24, 2007	PRIORITY DATE July 24, 2007	PAGE 1 of 1
APPLICANT NAME AND MAILING ADDRESS YOUSSEF SAMIR MEGAHED 4959 ANNISTON CIR TAMPA FL 33647			
			
To process your application, USCIS must take your fingerprints and have them cleared by the FBI. PLEASE APPEAR AT THE BELOW APPLICATION SUPPORT CENTER AT THE DATE AND TIME SPECIFIED. If you are unable to do so, complete the bottom of this notice and return the entire original notice to the address below. RESCHEDULING YOUR APPOINTMENT WILL DELAY YOUR APPLICATION. IF YOU FAIL TO APPEAR AS SCHEDULED BELOW OR FAIL TO REQUEST RESCHEDULING, YOUR APPLICATION WILL BE CONSIDERED ABANDONED.			
APPLICATION SUPPORT CENTER CIS TAMPA 9325 BAY PLAZA BLVD BAY PLAZA I, SUITE 215 TAMPA FL 336194412		DATE AND TIME OF APPOINTMENT 01/30/2008 02:00 PM	
WHEN YOU GO TO THE APPLICATION SUPPORT CENTER TO HAVE YOUR FINGERPRINTS TAKEN, YOU MUST BRING: 1. THIS APPOINTMENT NOTICE and 2. PHOTO IDENTIFICATION. Naturalization applicants must bring their Alien Registration Card. All other applicants must bring a passport, driver's license, national ID, military ID, or State-issued photo ID. If you appear without proper identification, you will not be fingerprinted.			
PLEASE DISREGARD THIS NOTICE IF YOUR APPLICATION HAS ALREADY BEEN GRANTED.			
USCIS has a free booklet to help you study for the naturalization test. Ask about 'Learn About the United States: Quick Civics Lessons' when you go to have your fingerprints taken at the Application Support Center.			
REQUEST FOR RESCHEDULING			
Please reschedule my appointment for the next available: <input type="checkbox"/> Wednesday afternoon <input type="checkbox"/> Saturday afternoon			
USCIS cannot guarantee the day preferred, but will do so to the extent possible. Upon receipt of your request, you will be provided a new appointment notice. Please mail your request to:			
CIS TAMPA 9325 BAY PLAZA BLVD BAY PLAZA I, SUITE 215 TAMPA FL 336194412			
If you have any questions regarding this notice, please call 1-800-375-5283.			APPLICANT COPY 
APPLICATION NUMBER SSC*001361325			
WARNING!			
Due to limited seating availability in our lobby areas, only persons who are necessary to assist with transportation or completing the fingerprint worksheet should accompany you.			