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FORENSICS ANALYSIS

IDENTIFICATION OF THE RADIO SHACK TOGGLE SWITCH.
CINDY WALLACE STATES THAT SHE MADE THE MATCH BASED ON:

- 1) THE THREADS IMPRESSED ON THE REMAINING WOOD COMPARED TO THE THREADS ON A RADIO SHACK SWITCH.
- 2) THE NUT IMPRESSION ON THE REMAINING WOOD COMPARED TO THAT OF A RADIO SHACK SWITCH.
- 3) THE CONTACTS THAT REMAINED COMPARED TO THAT OF A RADIO SHACK TOGGLE SWITCH.

AWT THOUGHTS:

- 1) THE THREADS ON THIS PARTICULAR SWITCH ARE GENERIC, IE. IF COMPARED TO ANOTHER TOGGLE SWITCH, ANOTHER BRAND, THEY WOULD BE THE SAME.
- 2) THE NUT ON THIS PARTICULAR SWITCH IS GENERIC, IE. IF IT WAS COMPARED TO ANOTHER TOGGLE SWITCH, ANOTHER BRAND, IT WOULD BE THE SAME.
- 3) I WOULD HAVE TO SEE THE REMAINING CONTACTS TO COMPARE THEM TO OTHER SWITCHES.

QUESTIONS:

MUST REVIEW EVIDENCE RECOVERED FROM THE CRIME SCENE AND HOW IT WAS COMPARED TO ARRIVE AT THE FINDING THAT THE SWITCH REMAINS ARE IN FACT THOSE OF A RADIO SHACK SWITCH.

UPON RECEIPT OF TWO EXEMPLAR 275-602 RADIO SHACK SWITCHES, ONE MUST BE TAKEN APART AND COMPARED 1) TO THE REMAINS FOUND AT EASTBOURNE STREET 2) COMPARED TO OTHER BRANDS OF TOGGLE SWITCH 3) COMPARED TO CONTACTS WITH SOLDER ON THEM (IN PHOTOGRAPH OF ATF DISCOVERY)

IF JR BOUGHT THE ITEMS ON THE LIST, WHERE ARE THEY?
THERE IS NO MENTION OF THERE WHEREABOUTS.
NOT AT SR'S HOUSE
NOT AT JR'S HOUSE
NOT AT MY HOUSE, OFFICE, CAR, APARTMENT, GARAGE

ITEMS IN QUESTION:
AA BATTERY HOLDER
SMALL PROJECT CASE
LARGE PROJECT CASE
LIGHT BULBS
LIGHT BULB HOLDER
TOGGLE SWITCH

ONLY ITEM FOUND IN BOMB REMAINS (?)

CAR - BUICK WHOSE FINGERPRINTS WERE PRESENT ON THE CAR.
CAR MAZDA - WHY WAS IT NOT SEARCHED OR FUMED

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TAPE REMAINING IN BOMB - FINGER PRINTS NOT TAKEN - WHY

WIRE SAMPLE WITH SOLDER NOT TWISTED, TWO PIECES OF WIRE
SIMPLY SOLDERED NEXT TO EACH OTHER.
ANYONE IN ELECTRONICS WOULD TWIST THEM TOGETHER THEN SOLDER.

ONLY SOLDER VISIBLE WAS ON TWO PIECES OF WIRE AND ON TWO
COPPER CONTACTS.

OCT 18 1991

SHAY SAYS WITH AWT AT CSM
@ 2:36 PM RASH

AWT WITH MARK RAMBOLI AT ARCOMM
PER M.R./N.C.

OCT 26 1991

JR, AWT PLACE DEV IN BOS
EARLY EVENING

AWT/JAC AT PARTY IN DORCHESTER
JR WIT. PUT JR IN QUINCY
AWT AT OFFICE @ DAY PER N.C.,
C.P

OCT 28 1991

AWT SETS OFF DEVICE
AWT SEEN IN AREA 11:30

WITH N.C. R.B. UNTIL 10:30
WITH R.B. UNTIL 12:30PM
WITH N.C. UNTIL 5:00PM

LIGHT BULB THAT WAS PURCHASED WAS A 7.5 VOLT BULB.

THE DEVICE USED 9 VOLT BATTERIES

ONE NINE VOLT BATTERY WOULD BE CLOSE TO TOO MUCH FOR THE
7.5 VOLT LIGHT BULB (IT WOULD BURN IT OUT).

IF THE BULB WAS USED TO TEST THE FIRING SYSTEM AS
CONSTRUCTED (45 VOLTS) IT WOULD IMMEDIATELY BLOW OUT THE
BULB.

IF WE LOOK AT THE ITEMS PURCHASED ON THE RADIO SHACK
INVOICE, WE WOULD SEE THAT THERE WAS AN AA BATTERY HOLDER
THAT HELD FOUR AA BATTERIES X 1.5 VOLTS PER BATTERY EQUALS
EXACTLY 6 VOLTS. A 6.5 VOLT LIGHT BULB WOULD WORK WITH THIS
BATTERY PACK PERFECTLY.

THE BATTERY PACK FROM RADIO SHACK WAS NOT USED IN THE
DEVICE, THE FUTABA HAD ITS OWN BATTERY PACK WITH THE SPECIAL
PLUG THAT MATED WITH THE FUTABA RECEIVER, THERE WOULD BE NO
NEED TO TEST THIS PART OF THE CIRCUIT WITH A LIGHT BULB.

THE DEVICE CONTAINED 9 VOLT BATTERY SNAP CONNECTORS. WHERE
DID THEY COME FROM ? THEY WERE NOT PURCHASED FROM THE RADIO
SHACK. THE 9 VOLT BATTERIES WERE DURACELL BATTERIES, NOT
PURCHASED AT A RADIO SHACK.

(3)

THE DEVICE DID NOT CONTAIN THE RADIO SHACK BATTERY PACK IT CONTAINED NINE VOLT BATTERIES WITH SNAP CONNECTORS. TO TEST THIS SET UP THE MAKER WOULD NEED A HIGHER VOLTAGE LIGHT BULB.

THE ITEMS PURCHASED SEEM TO BE USEFUL FOR SOME KIND OF SWITCH CIRCUIT USING 6 VOLTS, A 7.5 VOLT LIGHT BULB, A TOGGLE SWITCH, THE BOXES ARE A MYSTERY, BUT AGAIN, THE ITEMS PURCHASED ALL MATCH.

IF WE COMPARE THE ITEMS PURCHASED AT THE RADIO SHACK TO THE ITEMS FOUND IN THE DEVICE, THEY JUST DO NOT SEEM TO MATCH UP.

THE RASH BATTERY HOLDER HAD NO USE IN THE DEVICE-FUTABA COMES WITH ONE

THE FUTABA BATTERY HOLDER DID NOT NEED TO BE TESTED, IF THE BATTERIES WERE GOOD AND THE REMOTE WORKED WHEN ACTIVATED, THAT WOULD BE THE TEST-NO NEED FOR THE LIGHT BULB.

AS FOR THE FIRING CIRCUIT, IF THE BATTERIES WERE WIRED IN SERIES THEY WOULD PUT OUT 45 VOLTS, TO USE A 6.5 VOLT LIGHT BULB WOULD BE A ONE SHOT DEAL, ONCE THE CIRCUIT WAS WIRED AND THE TOGGLE SWITCH "THROWN" THE LIGHT BULB WOULD FLASH AND BE BURNT OUT.

IF 9 VOLT BATTERIES WERE USED AND SNAP CONNECTORS WERE CONNECTED TO THEM, WHERE DID THEY COME FROM, NOT FROM THE MASS AVE RASH.

THE BATTERY HOLDER WAS NOT USED IN THE DEVICE OR FOUND ANYWHERE.

THE LAMP WAS NOT FOUND IN THE DEVICE OR FOUND ANYWHERE THE LAMP HOLDER WAS NOT FOUND IN THE DEVICE OR FOUND ANYWHERE.

THE TWO BOXES WERE NOT USED IN THE DEVICE OR FOUND ANYWHERE. THE ONLY DEVICE FOUND IN THE DEVICE WAS THE TOGGLE SWITCH.

HAS IT BEEN DETERMINED HOW MANY TOGGLE SWITCHES WERE SOLD IN THE IMMEDIATE AREA ON OR AROUND THIS DATE.

IF SO COULD IT BE POSSIBLE THAT ANY OTHER TOGGLE SWITCH PURCHASES ON OR AROUND THIS DATE WERE ALSO PURCHASED WITH SOME OF THE SAME MATERIALS AS THE 28 OCT @ 2:36 PURCHASE ?

COMPARE 28 OCTOBER RASH RECEIPT WITH OTHER SIMILAR RASH RECEIPTS, DO THEY COMPARE TO THIS ONE ?

WHAT ABOUT DWAYNE DAMBRISTER'S ALLEDGED MISTAKES ON THE COMPUTER PRINTOUT OF SAHY. WHAT ABOUT OTHER RECEIPTS ON OR AROUND THIS DATE - DID HE ALSO MAKE MISTAKES ON THOSE RECEIPTS?

COMPARE SAHY RECEIPT WITH RECIEPTS BEFORE AND AFTER SAHY. POINT BEING, COULD THE RECEIPT OF SAHY BEEN FALSELY PRINTED? I.E. WHAT ABOUT THE THE INVOICE NUMBER AND THE TRANSACTION NUMBERS, DO THEY COINCIDE WITH POST AND PRE RECEIPTS. COULD THE SHAY RECEIPT HAVE BEEN FUDGED.

FOLEY

SHOULD FOLEY BE ASKED IF HE KNOWS ME THROUGH EITHER CHIP BROWN OF THE BOSTON FIRE DEPARTMENT OR PAUL DAVIES OF THE ARSON SQUAD? I BELIEVE I MET FOLEY AT ARSON HEADQUARTERS OR AT THE BOSTON FIRE DEPARTMENT COMMUNICATIONS CENTER AT THE FENWAY HEADQUARTERS

WASKOM

HE SAYS THAT HE DEVELOPED THE INFORMATION THAT A "SLIDE" SWITCH WAS USED IN THE 1986 DEVICE BASED ON:

- 1) THE HANDWRITTEN QPD POLICE REPORT BY JAMES W.
- 2) THE HAND WRITTEN NOTES OF LANNERGAN WITH AWT
- 3) THE TYPE WRITTEN REPORT OF LANNERGAN AND TIERNY
- 4) THE COMMONWEALTH OF MASS LAB REPORT
- 5) DENNY KLEIN'S REPORT

NOWHERE IS THERE ANY MENTION OF A "SLIDE" SWITCH IN ANY OF THESE REPORTS.

IS THIS THE FIRST TIME THAT WASKOM HAS TESTIFIED

IS THIS ONLY ONE OF TWO CASES THAT WASKOM WAS ASKED TO DEVELOPE A SIGNATURE

WASKOM MAKES THE STATEMENT THAT THE MAKER OF THE '91 DEVICE DID NOT SOLDER WIRES TO THE BLASTING CAPS BECAUSE THIS WAS THE LAST ITEM CONNECTED IN THE CIRCUIT. BUT IN THE '86 DEVICE THE LAST ITEM CONNECTED IN THE CIRCUIT WAS THE FLASH SIMULATOR AND IT WAS SOLDERED.

IF THE '86 DEVICE USED ONE LARGE MAGNET AND THE MAKER OF THE '91 DEVICE WAS ONE IN THE SAME, THEN WHY WOULD THE SAME MAKER START WITH SMALL MAGNETS AND ADD THE LARGE MAGNETS IF HE HAD DONE THIS SORT OF THING BEFORE.

DOES WASKOM HAVE ANY IDEA WHY IT TOOK OVER A YEAR TO BRING THE SOLDERED REMAINS UP FROM VIRGINIA

'91 ANTENNA CAME WITH THE FUTABA
'86 THE ANTENNA WAS A PIECE OF SCRAP WIRE

EXACTLY WHAT INFORMATION DID WASKOM GLEAN FROM THE 86 DEVICE

IN THE 'JUDGE' CASE, HOW DID HE GO ABOUT BUILDING THE MOCK UP DEVICE

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NOWHERE IS IT MENTIONED HOW THE RELAY IS CONNECTED IN THE '86 DEVICE

HAND WOULD BE BLOWN OFF IF HE HELD AN M-80 OR A CHERRY BOMB

SWITCH IN THE '86 DEVICE IS NOT A 3 POSITION SWITCH AS HE HAD STATED

HOW COULD HE BE 100% SURE AS TO HOW THE CONNECTIONS WERE MADE IN THE 86 DEVICE, IT WAS ONLY MENTIONED, IN THE REPORTS, AS TO THE GENERAL COMPONENTS AND THERE GENERAL USE.

EXAMPLE: KLEIN SAYS THAT THE RELAY WAS USED TO FIRE THE DEVICE, NOWHERE IS IT MENTIONED THAT THE LIGHT BULB WAS INSTALLED ON THE RELAY, OR FIRING SIDE, OR INSTALLED ON THE RECEIVER UNIT, OR THE FUSING SIDE OF THE CIRCUIT -

HOW DOES WASKOM MAKE THIS DISTINCTION?

EXAMPLE: WASKOM SHOWS, IN HIS DIAGRAM, THAT THE SLIDE SWITCH IS AN EXTERNAL COMPONENT JUST LIKE THE FUTABA -

- A) HOW DOES HE KNOW THAT THERE WAS EVEN A SLIDE SWITCH
- B) HOW DOES HE KNOW IF THE POWER SWITCH WAS BUILT IN TO THE CIRCUIT BOARD OR WAS EXTERNAL - DID HE HAVE THE EXACT SAME MODEL AS THE 1986 TYCO REMOTE CONTROL IN FRONT OF HIM
- C) WHAT WAS IN THE REPORTS THAT INDICATED WHAT MODEL TYCO THIS WAS I.E. DID HE GO TO A HOBBY STORE AND TAKE APART EVERY REMOTE CONTROLLED DEVICE AND ACTUALLY SEE HOW THIS PARTICULAR TYCO WAS MADE?

HOW MUCH DID WASKOM HAVE TO ASSUME ABOUT THE '86 DEVICE?
HOW MUCH DID WASKOM HAVE TO ASSUME ABOUT THE '91 DEVICE?

PAINIT

AT 2:50 PM WEDNESDAY I CALLED RUST OLEUM CORPORATION AND SPOKE TO A REPRESENTATIVE AT 708-816-2248

I WAS TOLD THAT CHLORINE WAS NOT A TYPICAL ELEMENT CONTAINED IN BLACK PAINT AND WAS PROBABLY A TRACE AMOUNT FROM ANOTHER SOURCE AND POSSIBLY A REACTION TO ITS APPLICATION.

THERE WAS NOTHING UNIQUE ABOUT THE ELEMENTS CONTAINED IN THE PAINT THAT WOULD ZERO IN ON THE PAINT MANUFACTURER AND WOULD BE FOUND IN A MAJORITY OF PAINTS.

CHLORINE IS HARD TO EXPLAIN IN BLACK PAINT AND IS NOT A COMMON ELEMENT. I WAS TOLD THAT HE COULD NOT UNDERSTAND WHAT THE CHLORINE WAS DOING IN THE PAINT AND WOULD NOT EXPECT IT IN BLACK PAINT AND THIS WAS A BIG QUESTION.

SILICON IS COMMON

ALUMINUM IS COMMON

SULFUR IS COMMON

MAGNESIUM SILICATE IS COMMON

ALUMINUM SILICATE IS COMMON

SHOULD BE SENT TO AN ANALYTICAL LAB TO FIND THE ORGANIC BINDER THAT'S IN THE PAINT THAT WOULD GIVE THE CLASS OF THE PAINT I.E. ALKYD OR EPOXY ETC THEN COMPARE TO SEMI GLOSS BLACK BUT STILL WOULD NOT NECESSARILY GIVE THE UNIQUE MANUFACTURER

BUT FURTHER STILL ALL PAINT CO'S BUY RAW MATERIALS FROM VARIOUS SUPPLIERS THAT COULD HAVE A TRACE AMOUNT FROM SOMETHING ELSE.

WHAT SHOULD BE DONE IS AN IR STUDY TO FIND THE ORGANIC BINDER BUT WOULD ONLY GIVE THE TYPE OF PAINT BUT NOT THE MANUFACTURER, SINCE ALL PAINT COMPANIES WOULD MAKE PAINT WITH THE SAME BASIC ELEMENTS AND BINDERS.

ELEMENTAL ANALYSIS IS WORTHLESS FOR A PAINT BUT AN ORGANIC BINDER VIA AN IR TEST IS THE BEST WAY TO GAIN MORE INFORMATION.

THE TEST THE ATF DID IS WORTHLESS TO IDENTIFY THE PAINT USED ON THE BOMB.

ADHESIVE

SPOKE TO BORDEN CHEMICAL ON WEDNESDAY AT APPROX 1:30PM
AT 1800-848-9400 AND 614-431-6680

I WAS TOLD THAT THEY ARE THE MAKERS OF CRAZY GLUE

I WAS TOLD THAT THEY SELL SUPERGLUE IN AN INDUSTRIAL SIZE OF
A 500 GRAM BOTTLE

I WAS TOLD THAT THERE IS A BASIC CYANOACRYLIC CHEMICAL
CONTAINED IN ALL CRAZY GLUE AND SUPER GLUE, MADE BY MASTER.
ALSO THAT CRAZY GLUE IS MADE WITH DIFFERENT HARDENING TIMES
AND OR SETTING TIME FOR THE INDUSTRIAL VERSION. THIS MEANS
THAT THERE IS A SLIGHT CHANGE TO THE CHEMICAL MAKE UP OF THE
GLUE WHICH WOULD BE IDENTIFIABLE.

SATURDAY 21 AUG 1991

POSSIBILITY OF MEETING WITH RANDY ON 28 OCT 91

CHANNEL 68 WORK WITH NURDAN FOR 3 - 4 HOURS

WITH RICH BROWN DURING THE MORNING AT OFFICE

TRIP WITH RICH TO DAVIDSON DISTRIBUTING

TRIP WITH RICH TO DIRECT CELL

BACK TO OFFICE BY 11:30-12:00