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GOVERNMENT
EXHIBIT
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2:24mj211

PENGAD 800-631-6969

Liquid Inventory

- Sulfuric acid 98% drain cleaner
- Nitrocellulose lacquer
- Glycerin Soap making
- Hydrogen Peroxide 27% Aqua Silk
- Acetone
- Alcohol
- Nitric Acid 67%
- Nitromethane 100%
- Methanol 100%

Powder Inventory

- Potassium Chlorate (KPO3) Stump remover
- Potassium Nitrate
- Potassium Perchlorate (KClO4)
- Barium Nitrate
- Sulfur
- Sodium bicarbonate (baking soda) shake away
- Strontium carbonate & nitrate
- Charcoal
- Bismuth trioxide
- Aluminum powder - black & bright
- Magnaluminum 200 mesh
- Aluminum chips 40-60 mesh
- Magnesium chips 30-50 mesh & Flake 325 mesh
- Antimony Trisulfide 200 mesh
- Copper oxide - black
- PVC powder
- Dextrin
- Ammonium Nitrate (instant ice packs)
- Diatomaceous earth
- Sodium Hydroxide - Lye/caustic soda
- Hexamine
- Ammonium perchlorate
- Parlon
- Red Gum
- Zinc dust
- Iron oxide powder
- Citric Acid Ethyritol

Pyro Powders

- Good Flash
 - 50% Potassium Nitrate
 - 30% Sulfur
 - 20% Aluminum powder - black
- Best Flash
- 70% Potassium perchlorate
 - 30% Aluminum powder - black / or magnesium

- Thermite
- 75% Iron Oxide powder
 - 25% Aluminum powder

- Black powder
- 75% Potassium nitrate
 - 15% Charcoal
 - 10% Sulfur

Tannerite

- 95% Ammonium Nitrate (instant ice packs)
 - 05% Aluminum powder - black
- Sensitize with flash powder & it will go off with a lower velocity round such as .22LR

Primary Detonator

HMTD 5,000 m/s
(will detonate all HE compounds)

• 5g = #8 cap

very sensitive to friction/shock/flare

* Sublimates quickly; store under alcohol

* must load into plastic container, will corrode

synthesize in glass container for metal

14g Hexamine dissolve into

45g 30% Hydrogen Peroxide

Place in an ice bath

21g Citric acid mixed in slowly

Stir occasionally for several hours

- Add/dilute with distilled water

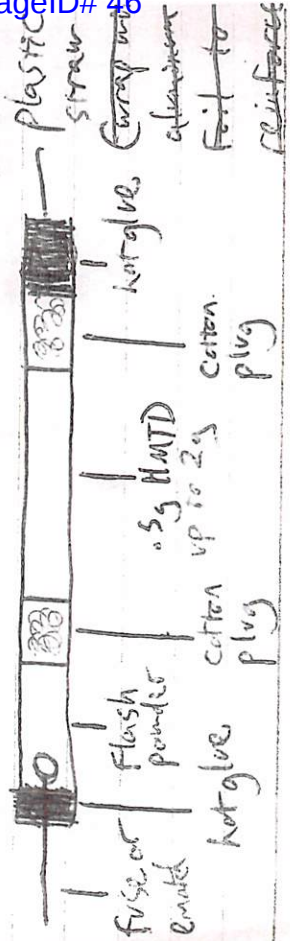
- Filter off crystallized product

- Rinse with water (removes acids)

- Rinse with alcohol & dry

Press into detonator cap (allow to dry 2 days)
store under alcohol in cold refrigeration

Det cap assembly (#8 equivalent)



W

Home made C-4

* Plasticized ANNM version (1 pound)

- 250ml Flour mix with
- 30ml Dark aluminum powder then mix
- 45ml Dry Ammonium Nitrate powder
- Add 125ml Nitromethane 40% minimum

Knead thoroughly into a dough
 Pack into PVC pipe 1 1/2" x 6"
 cap ends to seal from moisture
 * VERY stable / insensitive

Basic ANNM / ANFO

- 430 grams powder Ammonium Nitrate
- 80 milliliters Nitromethane

* by weight SAN : 2NM

⊖ Add 5% Dark Aluminum powder to sensitize and increase power

Bullseye powder ANNM

- 250ml powder Ammonium Nitrate
- MIX 5ml Dark aluminum powder

Set aside Sealed

50 ml Nitromethane + 1 TBSP Bullseye powder
 mix thoroughly 30 mins

* Knead mixtures together & mold into containers

- VERY POWERFUL

Reloading Data (RiAe)

.223/5.56 55g LOC - FMS (\$0.25)

Accurate 2460 - 20g - 2,800fps

CFE 223 -

.270 Win 110g Hornady FTX (\$0.62)

1MR 4064 - 46g (1MOA)

H380 - 47-50g

135g Sierra BTHP (\$0.65)

H380 - 46-47g

.308 / 7.62 168g Hornady BTHP (\$0.50)

1MR 4064 - 42g - (41g 1MOA)

165g Hornady Speer (\$0.45)

Accurate 2460

150g Hornady Speer (\$0.45)

Comboy Rifle

.15/70 325g Hornady FTX (\$1.00)
H4198 - 48g - 2,000 fps
(2.010 short case)

305g Lehigh Controlled Fracture
H4198 - 46g - 50g (\$1.44)

305g Xtreme Penetrator (\$1.44)
H4198 - 47g - 50g
Accurate 5744 46g

.44/40 200g Magnum RNFP (cast lead)
Black powder FF - 35g (\$0.31)

* Compress powder 1/16" and crimp case
- very important to ensure BP is compressed
with no airspace in case!

Gunpowder Inventory

CFE 223
IMR 4064
Benchmark
BLC-2
H380
LV Revolution
Accurate 2460
IMR 4350
H4198
FFg Black powder
Accurat 5744

Primers

209 shotshell
Winchester LRM
Winchester SR
Federal LR

Weapon Inventory / Serial

- PSA - AR15 - .225/5.56 (PA-15 MULTI)
Havoc 9" 37 mm

#SCB002112

- PSA - AR308 - .308/7.62 (G3-10 MULTI)
Osprey 16x scope
with machine SME

#G308754

- Uberti Mod 66 -.44/40 (CAT 1563)
#76533

- Winchester 62A - .22LR

pump action

#381142

- Western Field - 20 gauge (M550CD)
pump action

#G775414

- Beretta 92FS - 9mm luger
#BER038708Z

- Ruger SR22P - .22LR
#365-97727

37 mm loading

shell maximum diameter = 1.375"

Plastic shell - 25g FFg black powder
(50 yard range)

Aluminum shell - 40g FFg black powder
(100 yard range)

Type	Color
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Hand Grenade - 20g KClO4 - Green

Stinger Grenade - 10g KClO4 - Tan

Concussion Grenade - 10g KClO4 - Gray

Aerial Flare - Green stars - Orange

Air burst fireworks - Various - White
Smoke

209 shotshell primers

- Press fit into plastic shells

- Loctite into aluminum shells

Aluminum powder bushings hold 40g FFg BP
creates a smaller area for powder burn
resulting in a more powerful ignition and
longer distance launch.

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37mm load data

Hand Grenade

consists of a 3" long PVC (sch. 20)
 Paper tube .750" I.D. / .830" O.D. X 2.74" long
 .177 steel BB's - Qty 250
 3mm cannon fuse 1 1/2" long
 3/4" paper discs
 1 3/8" paper discs or fender washers
 Hi strength hot melt glue

Assemble 20g KClO4 Explosive inside PVC
 Surround 250 BB's within PVC

* Sand inside of PVC before hot melt glue *
Stinger Grenade

3" long PVC
 Paper tube .625" I.D. / .685" O.D. X 2" long
 .250 plastic airsoft BB's - Qty 80-ish
 3mm cannon fuse 1 1/2" long
 5/8" paper discs
 1 3/8" paper discs
 Hi strength hot melt glue

Assemble 10g KClO4 Explosive inside PVC
 Surround plastic BB's within PVC

37mm load data

Concussion Grenade

(Same construction as Stinger grenade)



Assemble 10g KClO4 Explosive inside PVC
 * Empty PVC

Aerial Flare

Assemble into a 2" long plastic shell
 1 - 30g FFy black powder over primer
 2 - 1 thin layer toilet paper
 3 - 1 3/8" paper disc with fire holes drilled
 4 - 6-8 colored firework stars
 5 - toilet paper wadding
 6 - 1 3/8" paper disc - hot melt glue to seal

Green Stars

50 Barium Nitrate
 32 Magnesium powder
 18 PVC powder
 5 Dextrin

Bleiser Purple Stars

68 Potassium perchlorate
 6 copper oxide
 9 Strontium carbonate
 11 PVC
 5 Dextrin

Firework stars

PETN

Prepare ice bath

33 ml Nitric acid (67%) + 19 ml sulfuric acid (94-99%)

mix until temperature stabilizes $< 10^{\circ}\text{C}$

slowly stir in pentaerythritol 10g (98% AR grade powder)

Keep temp below 15°C - If it fumes red dump it out

Let sit for 10 mins $< 15^{\circ}\text{C}$

prepare warm water bath 50°C

Raise temp of mixture in bath to 50°C

Let sit for 20 mins at 50°C

Crash mixture into cold distilled water

- Rinse / Dry / Recrystallize same as ETN

- If it starts to yellow, end process & filter

ETN

Very high power primary/secordiff HE
 - VOD 8,000 m/s when melt cast 1.73/cm³

Prepare large ice bath

Mix chilled Nitric acid (67%) 12ml
 + chilled Sulfuric acid (98%) 18ml

mix until temp stabilized < 5°C

slowly stir in Erythritol 3g - below < 5°C (fine powder)

Remove from ice bath maintain 10°C - 30 mins.

Crash mixture into cold water slowly

Filter ETN crystals

Rinse with sodium bicarbonate water

Rinse with distilled water

* DRY RAW ETN *

Dissolve crystals into small amount of Acetone,

Crash into turbulent cold water - stirring fast
 to create smaller crystals

Filter Recrystallized ETN

* DRY pure ETN

Melt Casting

This creates a dense block of solid ETN

that can be melt or poured into a mold

- Double boil a glass container of water 160°F

Submerge/float mold with powder ETN

- use a water tight container that can

withstand water temperature

- Allow to cool slowly

method 2

ETN method 1
 12ml Nitric acid (67%)
 18ml Sulfuric acid (98%)
 3g powder Erythritol

12g Ammonium Nitrate fill
 30ml Sulfuric acid
 3g powder Erythritol

ETN Thermal detonator

BP rolled with fuse



BP Fuse .5g ETN powder rolled with 3 layers
 of aluminum foil

* ETN will not detonate with direct contact
 to flame/fuse

10g Booster

