

# ***South Texas Aerospace Club***

## **STAC Equipment List**

### **Launch Equipment**

2 Custom-built low power club launch pads w/:

- 4 Launch pads (1/8" X 3' or 3/16" X 4' rods; field configurable)
- Low-power blast deflectors
- Rod mounting hardware
- Stainless steel trash buckets
- Tools (crescent wrenches and pliers)

2 Custom-built mid power launch pads w/:

- 2 Launch pads (1/4" X 6' rod or 1" X 6' rail; field configurable)
- High-power blast deflectors
- Rod and rail mounting hardware
- Stainless steel trash buckets
- Tools (crescent wrenches)

2 High power heavy duty aluminum rail launch pads w/:

- High-power blast deflectors
- 1" X 6' launch rail
- Rail mounting hardware
- Stainless steel trash buckets
- Leveling feet
- Tools (crescent wrenches)

1 High power extra heavy duty metal rail launch pad (special events only) w/:

- High-power blast deflector
- 1.0" X 6" or 1.5" X 6' launch rail w/ 4ft. extension (field configurable)
- Rail mounting hardware
- Stainless steel trash buckets
- Leveling feet
- Tools (crescent wrench and pliers)

1 Heavy duty tower launcher w/:

- High power steel base/blast deflector

- Adjustable 1" rail guide tubes
- Adjustable rocket stop
- Guide tube mounting hardware
- Leveling feet
- Tools (crescent wrench and pliers)

2 Low power 4-pad club launch controllers w/:

- 50 ft. control cables (2)
- Igniter cable leads (4)
- High amp 12V battery

1 Mid-power 4-pad club launch controller w/:

- 50 ft. control cables (2)
- Igniter cable leads (4)
- High amp 12V battery

1 High power launch controller system w/:

- Igniter cable leads (4)
- Pad control box (1)
- Control cable (800 ft.)
- Battery box (1)
- Dual high amp 12v batteries
- 4-Position launch controller Interface
- Launch key
- Launch warning beacon light

1 Estes Pro Series launch system w:

- PVC base
- 6' X 1/4" launch rod
- Blast deflector shield
- Pro Series launch controller w 25 ft. cable leads
- Pro Series launch controller keys

1 Estes Porta-Pad II launch system w:

- Plastic base
- 3' X 1/8" launch rod
- 3' X 3/16" launch rod
- Blast deflector shield
- E-launch controller w/ 30ft. cable leads
- Launch controller keys

- Tenergy NiMH battery
- Tenergy universal 7.2V-12V MiMh/NiCd battery charger

1 Large launch rod carrying case

1 Small launch carrying case

1 Aluminum 6' step ladder

1 Aluminum step stool

1 Dell Latitude D620 Intel 1.6 GHz Core 2 Duo 64-bit laptop computer system w/:

- Toshiba 500GB USB 3 portable drive
- Logitech wireless optical mouse
- 120V power supply
- 8' Cat 5E patch cable
- 8' Cat 5E crossover cable
- PerfectFlite DT4U USB data transfer cable
- Targus black nylon laptop carrying case

1 Dell Latitude D630 Intel 2.2 GHz Core 2 Duo 64-bit laptop computer system w/:

- Western Digital Passport 1TB USB 3 portable drive
- PNY 64MB SD memory card
- PNY 16MB SD memory cards
- PNY 16MB USB memory stick
- Digipower USB multi card reader
- Logitech wireless optical mouse
- Targus 4-port USB 2.0 hub
- 120V power supply
- 12V power supply
- 6' Cat 5E patch cable
- 10' Cat 5E patch cable
- 8' Cat 5E crossover cable
- iPhone 4s USB data transfer/power cable
- Dell black nylon laptop carrying case

1 Dell Inspiron 5520 Intel i5 quad core 2.5 GHz 64-bit laptop computer system w/:

- Western Digital 1TBGB USB 3 portable drive
- PNY 64MB SD memory card
- PNY 16MB SD memory cards
- PNY 16MB USB memory stick
- Digipower USB multi card reader

- Logitech wireless optical mouse
- Targus 4-port USB 2.0 hub
- 120V power supply
- 12V power supply
- 6' Cat 5E patch cable
- 10' Cat 5E patch cable
- 8' Cat 5E crossover cable
- iPhone 4s USB data transfer/power cable
- Dell black nylon carrying case

#### 1 Nextbook NX008HD8G 8" Android 4. 2.4GHz wireless tablet PC

- PNY 64MB SD memory card
- Targus USB multi card reader
- Logitech wireless optical mouse
- Black protective hard notebook case w/ built in keyboard and screen stand
- iHome Bluetooth keyboard w/carrying case
- Targus 4-port USB 2.0 hub
- Pocket stylus
- 120V power supply
- 12V power supply
- 6' HDMI cable
- iPhone 4s USB data transfer/power cable
- Mini USB to standard USB 2.0 patch cable
- Mini USB tablet PC adapter set
- SOL black nylon carrying case

#### 1 Wi-Fi 2.4GHz hotspot system w/:

- 1 Motorola Canopy CPE backhaul radio
- 1 TP Link 2.4 GHz high power long range outdoor Wi-Fi access point
- 1 TP Link 10/100/1000 gigabit fast ethernet switch
- 2 Antenna lightning arrestors
- 1 Aluminum antenna mast
- Antenna mast mounting hardware
- Antenna cabling

#### 2 Estes theodolites

#### 1 Subterranean rocket retrieval implement (shovel)

### **Range Safety Equipment**

#### 6 Baofeng 888S portable radios w/:

- Speaker mic
- Earphone headset
- Belt clip
- Li-Po battery
- 120V charging cradle

1 Grecom multi-band scanning aviation radio w/ 120V charger

1 Stars and Stripes 48" winsock

1 RSO/LCO air horn

1SCO/ALCO air horn

1 First aid kit

1 Halon lb. fire extinguisher

3 Water hoses (75 ft.)

2 Water hoses (100 ft.)

4 Water sprayer handles

3 Water hose Y adapters

1 Water hose 4-way brass manifold

## **Sound System (for special events only)**

1 Professional 10000-watt sound system w:

- 4 Custom-built professional 18" woofer bass speaker bottom cabinets (2 cabinet per side)
- 4 custom-built professional dual 15" w/ horns main speaker top cabinets (2 per side)
- 7 Behringer and Yamaha professional monitors speakers
- 1 6000 watt Behringer professional monitor amplifier
- 1 6000 QSC professional power amplifier for bass speaker lower cabinets
- 1 4000 watt Crown professional power amplifier for main speaker top cabinets
- 1 Soundcraft SI2 32-channel professional full digital mixing console
- 1 Behringer 18-channel Digital XR-18 Air digital mixer
- 1 ADC professional 12-track stereo pre-amp equalizer
- 2 laptop computer systems
- 2 laptop computer interface cables

- 1 pair Sony studio monitor headphones
- 13 Professional microphones
- 13 Mike stands
- Custom made cabling snakes

## **Other Equipment**

2 Folding 4' X 8" outdoor LCO/RSO table

1 Folding 4' X 8" outdoor flyer sign up table

2 Folding 2.5' X 4' outdoor tables

1 CD lawn chair

1 RSO/LCO lawn chair

1 SCO/ALCO lawn chair

1 PM lawn chair

7 Guest lawn chairs

1 Launch table garbage can

1 Flight card storage box

1 launch table HFT 10' X 10' pop up canopy w:

- Carrying case
- Canopy side wall
- Canopy tent stakes

1 Pad Manager HFT 10' X 10' pop-up canopy w:/

- Carrying case
- Canopy side wall
- Canopy tent stakes

1 Club member Academy 10' X 10' pop-up canopy w/:

- Carrying case
- Canopy tent stakes

1 3' X 5' US peacetime flag

1 3' X 5' Texas flag

2 Aluminum 10' flag poles

1 Aluminum 10' windsock pole

5 outdoor 100 ft. 120V extension cords

1 100 ft. heavy duty 120V extension cord

1 outdoor 6-way heavy duty power strip

1 5-way 120V outdoor heavy duty extension cord adapter

2 3-way 120V outdoor extension cord adapters

1 heavy duty 120 V 3-way outdoor extension cord pigtail adapter

## **Paperwork**

FAA waiver

STAC liability waivers

STAC flight cards

## **Optional Launch Equipment (for special events only)**

1 Heavy duty low power club launch pad w/:

- 5 Launch pads
- Low-power blast deflectors
- Rod mounting hardware

1 Heavy duty low power club launch pad w/:

- 4 Launch pads
- Low-power blast deflectors
- Rod mounting hardware

1 High power light duty rail launch pad w/:

- 1" X 6' launch rail
- High power blast deflector
- Rail mounting hardware

1 High power 4-position club launch controller w/:

- 100 ft. control cables (2)
- Igniter cable leads (4)
- High amp 12V battery

2 Low power 4-position club launch controllers w/:

- 50 ft. control cables (2)
- Igniter cable leads (4)
- High amp 12V battery

1 Low power 2-position launch controller w/ no power source

Assorted 1/8", 3/16" and 1/4" launch rods

2 Outdoor 5' x 2.5' folding tables

2 Small tray type folding tables

1 Club member popup canopy (12' X 12')

2 Outdoor folding chairs