

Attachment 1: Aircraft, Control and Communications Systems

Reference: FAA AIR-160 UAPO Guidance Document 08-01

Great Planes Siren

INL uses several types of light, under 55 lb, fixed wing and rotary airframes with a variety of 1 to 5 horse power electric, glow fuel, and gasoline piston engines. One RC class fixed wing UA is the Great Planes Siren, Photo 1.

- Low cost 'Arcturus T15/16 trainer' solution
- Wingspan: 79"
- Length: 38.5"
- Wing area: 492 sq. inches
- Wing Loading: 12 oz / sq. ft.
- Weight: 32.5 oz.
- Transmitter: Multiplex Royal 3 – 4 ch. RC
- Receiver: Hitec Electron
- Motor: Kontronik 480-33 (~ .6KW)
- 30 minutes duration
- 45 kts cruise



Photo 1: Great Planes Siren

Almost ready to fly (ARF) purchased from:

<http://www.electrifly.com/largeelectrics/gpma1065.html>

Flight Control Systems and Ground Stations

UA is remotely controlled using common RC type controllers.