Characteristics Summary

INTERCEPTOR YGAR-I

"FALCON"

HUGHES

Wing Area ................. N.A. Length ......................... 77.8 in.
Span .................. 20.0 in. Height ................... 20.0 in.

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number available</td>
<td>Number to be delivered in fiscal years</td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

1. Project Initiated: Mar 47
2. Formerly designated XF-98

POWER PLANT

SUSTAINER
(1) T-47
Hughes Aircraft Co.

THRUST RATINGS
S.L.S. LB - Duration (sec)
Max: 5560 - 1.2

BOOSTER
Not Applicable

FEATURES

Cruciform Arrangement of Wings and Tail
Semi-Active Target Seeker
Gyro-controlled Antenna

Max Fuel Cap: 34 lb

GUIDANCE

(a) INITIAL:
E9 (A) Fire Control System

(b) MID-COURSE & TERMINAL:
Semi-Active Radar Target Seeker

CONTROL
Operated by the error signal from target seeker
### Characteristics Summary Basic Mission

**HIGH ALTITUDE INTERCEPTOR**

### Performance

<table>
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<tr>
<th>Endurance</th>
<th>Range</th>
<th>Speed</th>
</tr>
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<tbody>
<tr>
<td>SEE NOTE (b)</td>
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<td>MAX 1783 knots at 50,000 ft alt, rocket burnout</td>
</tr>
</tbody>
</table>

- Endurance: SEE NOTE (b)
- Range: naut mi.
- Speed: MAX 1783 knots at 50,000 ft alt, rocket burnout

### Launching

**Method**
- Phase I: Short Length Rail
- Phase II: Wing Pod Stowage
- Rocket launched in 25 seconds and boosted to over Mach 2.5 in 1.2 seconds

### Climb

**Climb Climb**
- NOT APPLICABLE
- NOT APPLICABLE

- Sea level, launching wt., max power
- ft alt, begin cruise wt., max power

### Load Weights

- **Warhead:** 8 lb
- **Fuel (Plastisol):** 34 lb
  - Protected: {}
  - Droppable: {}
  - External: {}

- **Empty:** 82 lb
- **Burnout:** 90 lb
- **Launch:** 124 lb

### Notes

1. **Performance Basis:**
   - (a) Estimated data (Not substantiated by WADC)
   - (b) Performance data will be published when available.

2. **Revision Basis:** Initial Issue

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**YGAR-I**

**SECRET**

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