**Characteristics Summary**

**INTERCEPTOR . . . . . . . . . . . .XGAR-IA**

"FALCON"

HUGHES

Wing Area .................. N.A.  Length .................. 83.3 in.
Span ........................ 24.0 in.  Height .................. 24.0 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. Formerly designated XF-98A

**POWER PLANT**

SUSTAINER
(1) Solid Rocket Motor  
2-level thrust  
Hughes Aircraft Co.

THrust RATINGS
S.L.S.  
LBS Duration (sec)  
Max: (1) 3200 - 0.6  
(2) 900 - 4.0  
BOOSTER  
Not Applicable

**FEATURES**

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

Max Fuel Cap: 24 lb

**GUIDANCE**

(a) INITIAL:  
X-Band Pulse  
Radar MX-1179B  

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

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

**NOT APPLICABLE**

**HIGH ALTITUDE INTERCEPTOR**

### PERFORMANCE

<table>
<thead>
<tr>
<th>ENDURANCE</th>
<th>RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEE NOTE (b)</td>
<td>SEE NOTE (b) naut mi. with lb payload at knots avg. in hours</td>
<td>MAX 2185 knots at 40,000 ft, rocket burnout</td>
</tr>
</tbody>
</table>

### LAUNCHING

**METHOD**
- Short Length Rail
- Rocket launched in 20 seconds from time target is sighted

### CLIMB

**NOT APPLICABLE**
- sea level, launching wt., max power
- ft alt, begin cruise wt., max power

### ALTITUDE

**OPERATING**
- Minimum ........ 5000 ft.
- Maximum ........ 60,000 ft.

### LOAD

<table>
<thead>
<tr>
<th>Warhead:</th>
<th>12 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel: (Plastisol)</td>
<td>24 lb</td>
</tr>
<tr>
<td>protected</td>
<td>0 %</td>
</tr>
<tr>
<td>droppable</td>
<td>0 %</td>
</tr>
<tr>
<td>external</td>
<td>0 %</td>
</tr>
</tbody>
</table>

### WEIGHTS

| Empty | 96 lb |
| Burnout | 108 lb |
| Launch | 132 lb |

### TARGET ACCURACY

- 85% for salvo of 6 rockets against a Mach 1.2 target (100 foot wing span)

### NOTES

1. **PERFORMANCE BASIS:**
   - (a) Estimated data (Not substantiated by WADC)
   - (b) Performance data will be published when available
2. **REVISION BASIS:** Initial Issue

XGAR-IA

SECRET

14 AUG 53