- 1. The overall......in this field. "ide geographical coverage should be provided, particularly in areas not accessible to conventional elint resources. A long life (6-12 months in orbit) is required with high probability of intercept on target signals. The system must be free of felse indications of any signal parameter, particularly that of radio frequency band.
- 2. In any....requirement, a general search capability from the MUF to at least 15 Gc/s should be available. Selected spectral regions of high intelligence interest should be maintained in orbit available for expanitation at all times. his general...and nagative data. (The systemment be free of all artifacts). The frequency of expolitation will vary with the international situation, other intelligence knowledge and other requirements at the time.

Current priority frequency spectral interest is as follows, but is subject to change based on future intelligence and mission results.

150_200 Mc/s
550_1000 Mc/s
2690_5200 Mc/s
200_550 Mc/s
5250_9500 Mc/s
1000_2650 Mc/s
9500_15,000 Mc/s
_80_150 Mc/s
MIF to 80 Mc/s
bove 15 Gc/s at atmospheric windows

(Note, a substantial portion of the frequency region below 100 Me/s is severely cluttered with TV and FM broadcast stations, and this part of the spectrum is of comparatively low elint priority—neglecting telemetry and communications systems)

ADD: The collection system must be adequate to search goographically orbited so that, at whatever altitude, consecutive passes should provide continuous consecutive geographic over the entire surface of the earth without gaps.

He general search capability should be able to supply information within the following tolerances:

- a. Target signals should provide a 15 db signal to noise ratio from any emitter with an antenna gain of 20 at least 20 db from any emitter with peak pulse power of 250 km at 5000 Mc/s (s-band) linerally decreasing to 80 km at 9500 Mc/s (X-band) b. OK
 - c. PRF measurements are desired within 2%. Ast rates up to 5000 pps; above that value accuracy of 10% is sufficient

d,	d. OK											
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Recognition ... and some form of measurements on scan modes other than circular and sector should be possible.

(h) The drop, important simultaneous data.

ly as means to end or correlation with other

i. OK

JOP SECRET

HANDLE VIA
BYENAN
CONTROL SYSTEM ONLY