

EXHIBIT A - FORM ITEM NO. 7

The radiators will consist of directional antennas (linear horizontal and vertical polarization) located 25 feet above ground level which will be directed at the horizon. The maximum beam width of the antennas for each frequency band is as follows:

<u>Frequency Band</u>	<u>Maximum Beam Width (Degrees)</u>
50 - 250 MHz	86
250 - 500 MHz	18
500 - 1000 MHz	10
1000 - 2000 MHz	5
2000 - 4000 MHz	4
4000 - 8000 MHz	3
8000 - 12400 MHz	1 1/2
12400 - 18000 MHz	2
20000 - 45500 MHz	1 1/2

EXHIBIT B - FORM ITEM NO. 13

The transmit equipment for which this application is being submitted, is to be used to provide a signal source for performing design verification and acceptance testing (radiation patterns and gain) of microwave antennas which are being developed and manufactured by Radiation Systems, Inc. (RSi). The principal types of microwave antennas manufactured by RSi and their frequency band of operation are given in Table I. Many of these antennas have unique performance characteristics with no comparable antennas being produced by other manufacturers.

It is anticipated that testing will occur approximately 200 days per year with 75% of the testing being in the 1.0 to 8.0 GHz frequency band. A typical block diagram for the radiation patterns and gain tests is shown in Figure 1. A list of the transmit equipment to be used is given in Table II. One antenna test tower may be approximately 80 feet in height.

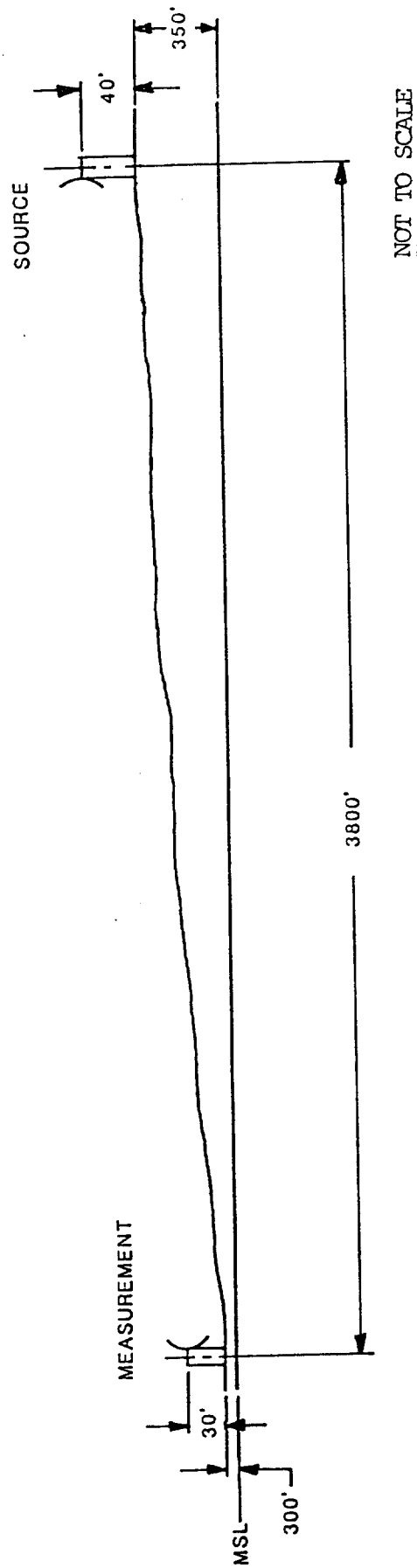


Exhibit C. VERTICAL PROFILE,
RT. 772 RANGE

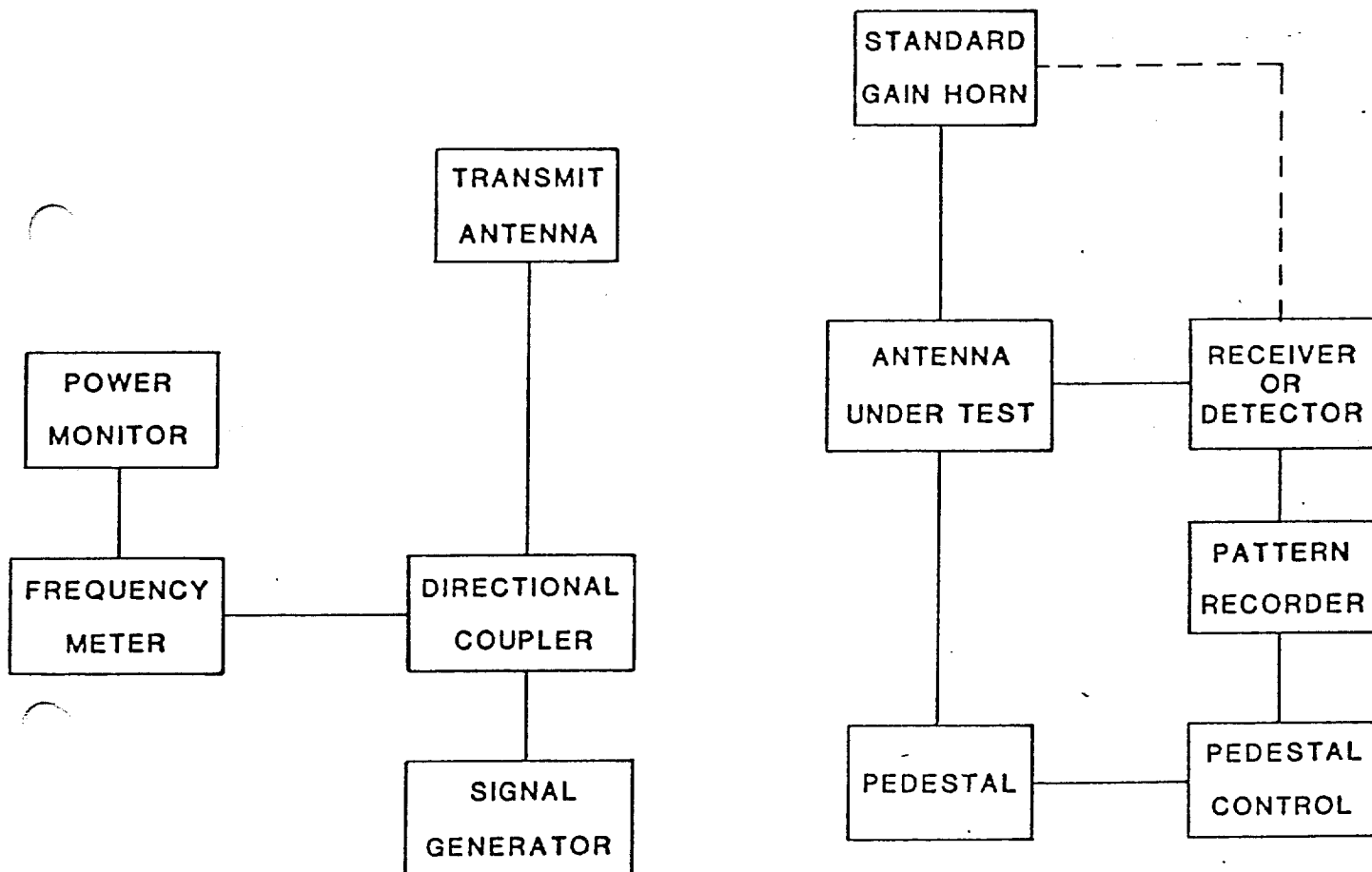


Figure 1. Test Setup for Radiation Patterns and Gain

TABLE I

PRINCIPAL TYPES OF MICROWAVE ANTENNAS
MANUFACTURED BY RADIATION SYSTEMS, INC.

<u>Type of Antenna</u>	<u>Frequency Bands</u>
Tactical Military Communication Antennas (LOD and Tropo)	855 to 985 MHz 4.4 to 5.0 GHz 7.125 to 8.4 GHz
Air Traffic Control Beacon Interrogator Antennas (SSR)	1020 to 1100 MHz
Earth Station Antennas	3.7 to 4.2 GHz 5.9 to 6.4 GHz 11.0 to 15.0 GHz
Broad Band Direction Finding Antennas	50 to 250 MHz 250 to 1000 MHz 1.0 to 18.0 GHz

TABLE II

TRANSMIT EQUIPMENT TO BE INSTALLED

<u>Manufacturer</u>	<u>Type</u>	<u>No. of Units</u>
Hewlett-Packard	Sweep Oscillator Model 8350	4
Hewlett-Packard	Sweep Oscillator Plugin Model 8624A (2 - 8.4 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin Model 8629A (2 - 18 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin 86222A (.01 to 2.4 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin 86220A (.01 to 1.7 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin 86250D (8 - 12.4 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin 86260B (10 - 15 GHz)	1
Hewlett-Packard	Sweep Oscillator Plugin 86260A (12.4 to 18 GHz)	1
Hewlett-Packard	Signal Generator 8616A (1.8 to 2.4 GHz)	1
Hewlett-Packard	Signal Generator 620B (7 to 11 GHz)	1