

EXHIBIT 4-1; Harris Corp. Antenna Test Facility Info

HARRIS CORPORATION, Government Communication Systems Division, Palm Bay, FL												
FORM 442		Antenna Test Facility										
Line No		4A FREQUENCY-low (MHz)	FREQUENCY-high (MHz)	ANT. SIZE (ft)	4B POWER (dBm)	4E EMISSION	4F MODULATION	4G BANDWIDTH	GAIN (dBi)-max	4C ERP (dBm)-max	6 BEAMWIDTH (deg)-min	LOCATION
1	A	1680	2300	4	10	NON	CW	NON	27.1	37.1	7.5	Palm Bay
	B	1680	2300	8	10	NON	CW	NON	33.2	43.2	3.7	Palm Bay
	C	1680	2300	16	10	NON	CW	NON	39.2	49.2	1.9	Palm Bay
	D	1680	2300	20	10	NON	CW	NON	41.1	51.1	1.5	Palm Bay
2	A	3625	4200	4	10	NON	CW	NON	32.4	42.4	4.1	Palm Bay
	B	3625	4200	8	10	NON	CW	NON	38.4	48.4	2.0	Palm Bay
	C	3625	4200	20	10	NON	CW	NON	46.4	56.4	0.8	Palm Bay
3	A	5825	6425	4	10	NON	CW	NON	36.1	46.1	2.7	Palm Bay
	B	5825	6425	8	10	NON	CW	NON	42.1	52.1	1.3	Palm Bay
	C	5825	6425	20	10	NON	CW	NON	50.0	60.0	0.5	Palm Bay
4	A	7250	8400	8	10	NON	CW	NON	44.4	54.4	1.0	Palm Bay
	B	7250	8400	20	10	NON	CW	NON	52.4	62.4	0.4	Palm Bay
	C	7250	8400	38	10	NON	CW	NON	58.0	68.0	0.2	Palm Bay
5	A	10950	12750	8	10	NON	CW	NON	48.0	58.0	0.7	Palm Bay
	B	10950	12750	20	10	NON	CW	NON	56.0	66.0	0.3	Palm Bay
6	A	14000	14500	8	10	NON	CW	NON	49.2	59.2	0.6	Palm Bay
	B	14000	14500	20	10	NON	CW	NON	57.1	67.1	0.2	Palm Bay
7	A	20200	21200	4.5	10	NON	CW	NON	47.5	57.5	0.7	Palm Bay
8	A	43500	45500	4.5	10	NON	CW	NON	54.1	64.1	0.3	Palm Bay
9	A	800	9600	8	10	NON	CW	NON	45.6	55.6	0.9	Malabar
	B	11900	17000	4	10	NON	CW	NON	44.5	54.5	1.0	Malabar

EXHIBIT 4-2; Harris Corp. Antenna Test Facility Info

HARRIS CORPORATION, Government Communication Systems Division, Palm Bay, FL			
FORM 442 .		Antenna Test Facility	
Line No	4		
ITEM	Test Location	Longitude	Latitude
1	Palm Bay Facility: BLDG 5 Test Facility	80° 35' 52"	28° 01' 54"
2	Palm Bay Facility: BLDG1; East End	80° 35' 52"	28° 01' 59"
3	Palm Bay Facility: BLDG 12	80° 35' 52"	28° 01' 57"
4	Palm Bay Facility: Blockhouse, BLDG 17	80° 35' 58"	28° 01' 51"
5	Palm Bay Facility: Radome, BLDG 14A	80° 36' 01"	28° 01' 52"
6	Palm Bay Facility: BLDG 25 Tower	80° 35' 38"	28° 01' 55"
7	Palm Bay Facility: BLDG 24	80° 35' 40"	28° 01' 58"
8	Palm Bay Facility: Parking, so. of BLDG 25	80° 35' 47"	28° 01' 46"
9	Palm Bay Facility: 150' Tower	80° 36' 03"	28° 01' 03"
10	Palm Bay Facility: 400" Tower	80° 36' 14"	28° 00' 51"
11	Malabar Facility	80° 33' 22"	27° 58' 40"

EXHIBIT 4

LINE 4:

This application addresses the Antenna Test Facility of Harris Corporation, Government Communications Division in Palm Bay, FL with auxiliary facility nearby in Malabar, FL.

These facilities are used for the testing of antenna designs for custom systems generally in support of U.S. Government contracts.

Antennas of various sizes and frequencies are tested at these facilities. Exhibit 4-1 (attached) outlines the possible frequencies of operation, antenna sizes, power levels used, emission characteristics, beamwidths, and maximum gain and EIRP possible when testing these antennas. Items 1 through 8 are tested at the Palm Bay Facility and Item 9 tested at the Malabar Facility.

At Palm Bay there are several test areas. The coordinates for each of these sites and the single Malabar site are given in Exhibit 4-2 (attached).

attachments: Exhibits 4-1 and 4-2

EXHIBIT 7

LINE 7:

The Antenna Test Facility of Harris Corporation, Government Communications Division in Palm Bay, FL with auxiliary facility nearby n Malabar, FL. is used in conjunction with several on-going government contracts as well as Internal Research and Development projects.

The on-going Government contracts and description are given in Exhibit 7-1 (attached).

attachment: Exhibit 7-1

EXHIBIT 7-1; Harris Corp. Antenna Test Facility Info Government Contract Info

HARRIS CORPORATION, Government Communication Systems Division, Palm Bay, FL			
FORM 442 .		Government Contracts	
Line No	7	Agency	Program Title
ITEM	Contract No.		
1	DAAB-07-92-C-A507	CECOM (US Army)	HT Modernzation
2	DAAB-07-93-C-B752	CECOM (US Army)	SMART-T
3	F08-635-90-C-0035	Eglin AFB	Mini-Mutes
4	MDA911-93-C-0030	HQ U.S, Spec. Ops. Command	SOF IRIS
5	DAHT01-94-C-0009	TCMO; Vint Hill Farms Sta.	STAR
6	M67854-93-C-M22231	U.S. Marines	AEROSTAT