

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 customer 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 and Item 10 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 4-1; Harris Corp. Antenna Test Facility Info

HARRIS CORPORATION, Government Communication Systems Division, Palm Bay, FL
Antenna Test Facility

FORM 442 Line No. ITEM	4A Frequency-high MHz	Frequency-high (MHz)	Ant. Size (ft)	4B Power (dBm)	4E Emission	4F Modulation	4G Bandwidth	Gain (db)-max	4C ERP (dBm)-max	6 Beamwidth (deg)-min	Location
1	A	1680	2300	4	10	NON	CW	27.1	37.1	17.5	Palm Bay
	B	1680	2300	8	10	NON	CW	33.2	43.2	13.7	Palm Bay
	C	1680	2300	16	10	NON	CW	39.2	49.2	1.9	Palm Bay
	D	1680	2300	20	10	NON	CW	41.1	51.1	1.5	Palm Bay
2	A	3625	4200	4	10	NON	CW	32.4	42.4	4.1	Palm Bay
	B	3625	4200	8	10	NON	CW	38.4	48.4	2	Palm Bay
	C	3625	4200	20	10	NON	CW	46.4	56.4	0.8	Palm Bay
3	A	5825	6425	4	10	NON	CW	36.1	46.1	2.7	Palm Bay
	B	5825	6425	8	10	NON	CW	42.1	52.1	1.3	Palm Bay
	C	5825	6425	20	10	NON	CW	50	60	0.5	Palm Bay
4	A	7250	8400	8	10	NON	CW	44.4	54.4	1	Palm Bay
	B	7250	8400	20	10	NON	CW	52.4	62.4	0.4	Palm Bay
	C	7250	8400	38	10	NON	CW	58	68	0.2	Palm Bay
5	A	10950	12750	8	10	NON	CW	48	58	0.7	Palm Bay
	B	10950	12750	20	10	NON	CW	56	66	0.3	Palm Bay
6	A	14000	14500	8	10	NON	CW	49.2	59.2	0.6	Palm Bay
	B	14000	14500	20	10	NON	CW	57.1	67.1	0.2	Palm Bay
7	A	20200	21200	4.5	10	NON	CW	47.5	57.5	0.7	Palm Bay
8	A	43500	45500	4.5	10	NON	CW	54.1	64.1	0.3	Palm Bay
9	A	800	9600	10	10	NON	CW	45.6	55.6	0.9	Malabar
	B	11900	17000	4	10	NON	CW	41.5	51.5	1	Malabar
10	A	225	470	N/A	10	NON	CW	0-15	LOW	Various	Palm bay
	B	820	960	N/A	10	NON	CW	0-20	LOW	Various	Palm bay

ERP = ERP
1.64

1000 ERP
316 ERP
193 ERP
610 ERP

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

W42/RN

HARRIS CORPORATION, Government Communication Systems Division, Palm Bay, FL			
FORM 442		Antenna Test Facility	
Line No	4	Test Location	Latitude
ITEM		Longitude	
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	Matabar Facility	80° 33' 22"	27° 58' 40"

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
Government Contracts

FORM 422 Line No. 7 ITEM	Contract No.	Agency	Program Title
1	DAAB-07-92-C-A507	CECOM (US Army)	HT Modernization
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
	and F44650-92-C007	CECOM (US Army)	
7	DAAB07-95-C-A518	CECOM (US Army)	LMST
8	DAAB07-95-C-A273	CECOM (US Army)	LHGXA
9	DAAB07-96-C-D763	CECOM (US Army)	RAPA
10	HQ0006-95-C-0018	SUBCONTRACT	IFICS
	and 05666HR55BMCQ		
11	N00123-92-D-5466	NISE (US Navy)	SSCT