



HARRIS CORPORATION
Maritime Communication Services

1025 West NASA Boulevard
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Melbourne, FL USA 32919
phone 1-321-674-4750
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www.mcs.harris.com



1 May, 2009

European Radiocommunications Office
Peblingehus
Nansensgade 19-3
DK-1366 Copenhagen
Denmark
Attention: Alexander Gulyaev, gulyaev@ero.dk

Ministero delle Comunicazioni - DG SCER
viale America, 201
00144 Roma (ITALY)
Attention: Antonella Zolferino: antonella.zolferino@comunicazioni.it

Re: UPDATED ESV Declaration of Harris Corporation

Dear Mr. Gulyaev and Ms. Zolferino:

Pursuant to Annex C of the Decision of the Electronic Communications Committee ("ECC") of 24 June 2005 on the free circulation and use of Earth Stations on board Vessels operating in fixed satellite service in frequency bands 5.925-6.425 MHz (Earth-to-space) and 3.700-4.200 MHz (space-to-Earth), ECCDEC/(05)09, Harris Corporation (the "Company"), through its Maritime Communications Services ("MCS") subsidiary hereby declares that the parameters for the Company's system of earth stations on board vessels operating in Europe, and that the Company's system complies with the requirements of the Decision, Resolution 902(WRC-03), and any restrictions notified to the European Radiocommunications Office (the "Office") by CEPT administrations under Decides 5 and 6 of the Decision.

This is an update to information provided in our 2009 application, accepted by the ERO on 19 January 2009. The updated information reflects two additional ships operating in the Mediterranean Sea, the *Costa Pacifica* and the *Costa Luminosa*. Should any questions arise concerning the attached parameters or this declaration, please contact the undersigned directly.

Sincerely,

Richard Simonian

President
Harris Maritime Communication Services
+1 321 724 3015 direct
+1 321 536 2698 mobile
richard.simonian@harris.com
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4 Attachments

Attachment 1

MCS ESV Network Operator Details

Network operator name	Maritime Communication Services, Inc
Network operator address	1025 W. NASA Blvd Mailstop D-11D Melbourne, FL 32919 USA
Contact name	Don White
Contact telephone number	+1-321-674-4752
Contact e-mail address	don.white@harris.com
Network Control Facility (NCF) designated point of contact	Bill Dawkins
NCF Contact telephone number	+1-321-726-5555
NCF Contact e-mail address	tss_nmc@harris.com

Attachment 2

Conformity of the ESV terminal to the European Standard or equivalent Standard in accordance with art: 3(2) of the directive 99/05/EC(R&TTE Directive)



**ORBIT
COMMUNICATION LTD
Marine Division**

P.O.Box 8657
Netanya
42504 Israel

Tel direct: +972-9-8922736
Fax direct: +972-9-8922820
Web site: www.orbit-marine.com



9163-ls

CE Declaration of Conformity

We: ORBIT Communication Ltd.
5 b Hazoran St. New Industrial Zone, P.O. Box 8657, Netanya 42504

Represented By: ORBIT G.V. Ltd.
Unit 1, Compass Point, Ensign Way, Hamble, Southampton SO31 4RF, U.K.

Declare under our sole responsibility that the Product:
**AL-71XX & AL-72XX Systems
Marine Antenna Systems**

Manufactured on the: _____
Complies with the machinery directive 98/37/EC & the EMC Directive 89/336 EEC

Harmonized standards to which conformity is declared

EN 292-2: 1991/A1: 1995:
EN 60204-1:1997
EMC Standards
EN 55011: 1998 Class A
IEC 61000-4-2: 1995
IEC 61000-4-5: 1995
IEC 61000-4-8: 1993

EN 61000-6-2: 1999
IEC 61000-4-4: 1995
IEC 61000-4-6: 1996
IEC 61000-4-11:1994

We, the undersigned, hereby declare that the machinery specified above conforms to the above directives & standards.

Signature: KATZ
Full Name: Benny Katz

Manufacturer:
Date: 1 Sep 03 Position: V.P. Quality Assurance
Place: 5 b Hazoran St. New Industrial Zone, P.O. Box 8657, Netanya 42504

Representative:
Signature: [Signature] Date: 18/8/03 Position: Managing Director
Full Name: Jon Harrison Place: ORBIT G.V. Ltd., Unit 1, Compass Point, Ensign Way, Hamble, Southampton SO31 4RF, U.K.

Attachment 3

CE Declaration of Conformity for Orbit AL-7108 and AL-7109



Orbit Technology Group Ltd.

8C Hatzoran St. P.O.B 8657

Netanya 42504, Israel

www.orbit-techgroup.com

Tel: +972-9-892-2771

Fax: +972-9-892-2801

E-mail: group@Orbit-ltd.co.il

Declaration of Conformity

We,

**Orbit Technology Group Ltd.
8c Hatzoran St. P.O.B 8657
Netanya 42504, Israel**

Declare under our sole responsibility that our product

ORBIT AL-7108 & AL7109 Stabilized Marine Satellite Communication System (ESV),

To which this declaration relates is in conformity with the appropriate standards:

ISO 12100-2:2003

EN 60204-1:1997

EN 614-1:1995

IEC 60945:2002

ETSI EN 301447

Following the provisions of R&TTE Directive **1999/5/EC – Article 3.1a, Article 3.1b** and **Article 3.2** with essential requirements covering Low Voltage Directive **2006/95/EC** (replaces **73/23/EEC** as Amended) and Safety of Machinery Directive **98/37/EC** as Amended by **93/68/EEC** and **93/465/EEC**, EMC Directive **2004/108/EC** (replaces **89/336/EEC** as Amended), **ESV Satellite Regulations** regarding all needed functions and The Allowed EIRP per Bandwidth (limited spectral density toward adjacent satellites).

Netanya, Israel, October 16 2008.



**Guy Naym
V.P. SatcomSystems**

A handwritten signature in blue ink, appearing to be "Guy Naym", is written over the printed name.

Attachment 4

Technical Specifications of ESVs in MCS Network

Vessel	Antenna Type, Size	Transmit Freq Bands	ESV Antenna Transmit Peak Gain	Effective Transmitted Power*	Max e.i.r.p. per Carrier	Min Operating Elevation	Pointing Accuracy	Number of Carriers	Max Occupied Bandwidth Per Carrier (Khz)	Modulation	Multiple Access Scheme	Satellite Used (in Europe)	Transponder Downlink Center Freq (Mhz)	Transponder Downlink Bandwidth (Khz)	Transponder Uplink Center Freq (Mhz)	Transponder Uplink Bandwidth (Khz)
Costa Atlantica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B**	4167.91	157.4	6387.1000	157.4
Costa Classica	2.4M Orbit 7108 Cband system	5.9 - 6.4Ghz	41.5dB @ 6.15Ghz	20 watts	42dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4165.71	157.4	6418.0500	157.4
Costa Concordia	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4165.71	157.4	6392.2500	157.4
Costa Europa	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4167.91	157.4	6419.0575	157.4
Costa Fortuna	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4165.71	157.4	6416.8250	157.4
Costa Luminosa	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	25 watts	43.3dB	0 degrees	0.1 deg RMS	1	238.9	QPSK	SCPC	Intelsat 907 Global B	4167.91	238.9	6417.0650	238.9
Costa Magica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4167.91	157.4	6417.0100	157.4
Costa Marina	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4167.91	157.4	6417.3700	157.4
Costa Mediterranea	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4165.71	157.4	6422.1175	157.4
Costa Pacifica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	25 watts	43.3dB	0 degrees	0.1 deg RMS	1	238.9	QPSK	SCPC	Intelsat 907 Global B	4167.91	238.9	6422.3175	238.9
Costa Romantica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4165.71	157.4	6421.1725	157.4
Costa Serena	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	25 watts	43.3dB	0 degrees	0.1 deg RMS	1	238.9	QPSK	SCPC	Intelsat 907 Global B	4165.71	238.9	6417.5600	238.9
Costa Victoria	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	43.3dB	0 degrees	0.1 deg RMS	1	157.4	QPSK	SCPC	Intelsat 907 Global B	4167.91	157.4	6419.4095	157.4

*Excludes the out-of-band carrier from Telecom Italia on Costa vessels
TIM requires an additional 80-100 watts per vessel, and increases bandwidth to 512Kbps (typical)

**Operating Details of Satellite:
IS-907 at 332.5 deg.E
Global Beam
Intelsat
Provides service to MCS serviced vessels in Mediterranean