



HARRIS CORPORATION
Maritime Communication Services

1025 West NASA Boulevard
Mailstop D-11D
Melbourne, FL USA 32919
phone 1-321-674-4750
fax 1-321-674-4751

www.mcs.harris.com



18 January 2010

European Communications 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: RENEWAL ESV Declaration of Harris Corporation for **C Band** Services

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 GHz (Earth-to-space) and 3.700-4.200 GHz (space-to-Earth), ECC/DEC/(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 Communications Office (the "Office") by CEPT administrations under Decides 5 and 6 of the Decision.

This is a renewal application. The original approval for our ESV Declaration is attached, and dated 21 March 2008. Should any questions arise concerning the attached parameter 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
www.mcs.harris.com

7 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-Is

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: 15 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), CSV Satellite Regulations regarding all needed functions and The Allowed CIRP 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 a faint, stylized graphic that resembles a satellite or a signal wave.

Attachment 4

Original ESV Declaration Approval


Ministero
dello Sviluppo Economico
ex Ministero delle Comunicazioni
Direzione Generale per i Servizi di
Comunicazioni Elettroniche e di Radiodiffusione

00100 ROMA
RACC. A.R.
PROT. N. DGSCER/
7/UFF.1/AZ
Come nella risposta tutti i dati compresi nel riquadro

ALLEGATI
RISP. AL N.
DEL

OGGETTO:

Ala Società
MCS Maritime Communication
Services, Inc
1025 West NASA Boulevard
Mailstop D-11D
Melbourne, FL USA 32919
Att.ne Mr Richard Simonian

p.c. Costa Crociere S.p.A.
Att.ne Paolo Bertolini
Communication Manager
Corporate Information Technologies
Via XII Ottobre 2
16121 Genova

OGGETTO : Autorizzazione generale per servizi di rete via satellite per stazioni terrene a bordo di navi ESV, ai sensi dell'art. 25 del Codice delle Comunicazioni Elettroniche – Soc. **MCS Maritime Communication Services, Inc**

Si comunica che dal 1 gennaio 2008 è stata conseguita l'autorizzazione temporanea via satellite per stazioni terrene a bordo di navi ESV, all'interno della "minima distanza di sicurezza dalla costa" (300 Km) che avrà la durata di 1 anno e cioè fino al 31 dicembre 2008 e sarà rinnovabile; le stazioni suddette dovranno operare nella banda di frequenza 5.925-6.425 MHz. La rete è costituita da stazioni di tipo VSAT in collegamento con il satellite Intelsat 907 332.5E e offrirà agli utenti del corrispondente servizio di comunicazione la possibilità di trasmettere dati voce e accesso ad internet. Le VSAT sono conformi alla Direttiva 99/05/EC (R&TTE Directive)

Detto servizio potrà essere effettuato soltanto alle seguenti condizioni:

- L'uso delle ESV è consentito su base di non interferenza e senza diritto a protezione.
- Quando l'imbarcazione si trova all'interno della "minima distanza di sicurezza dalla costa" l'uso delle ESV è soggetto al rispetto dei requisiti tecnici contenuti nell'annesso 2 della Risoluzione 902:
 - dimensioni della parabola.
 - Stabilità di puntamento della parabola.
 - Flusso di potenza verso l'orizzonte.
 - Flusso di potenza fuori asse.



Ministero dello Sviluppo Economico ex Ministero delle Comunicazioni

Direzione Generale per i servizi di comunicazione elettronica e di radiodiffusione

- Le ESV devono essere equipaggiate di dispositivi per la immediata cessazione del servizio in caso d'interferenza.
- L'operatore ESV ha fornito il proprio punto di contatto in modo da poter essere reperito dall'Amministrazione ogni qualvolta si verificano interferenze nocive: MCS 1025W.NASA Blvd – Mailstop D-11D Melbourne, FL 32919 USA Tel. + 1-321-674.4752 e-mail tss nmc@harris.com
- I terminali ESV sono conformi allo standard ETSI EN 302 340
- I terminali ESV operano sotto il controllo della rete satellitare.
- L'uso delle ESV all'interno delle distanze di separazione dalla costa di altri Paesi sarà subordinato a preventivi accordi con i Paesi stessi.

Le ESV saranno installate sulle navi:

- Allegra, Atlantica, Europa, Fortuna, Classica, Concordia, Magica, Marina, Mediterranea, Romantica, Serena e Victoria della flotta Costa Crociere.

L'importo relativo al contributo per i diritti amministrativi di cui all' allegato 10, art. 1, comma 1, lettera d), punto 2 del Codice dovrà essere versato dalla Società MCS nella misura di **€uro 5550,00** su c/c postale n. 70314141 intestato alla Tesoreria provinciale dello Stato di Viterbo, con imputazione al Capo XXVI – capitolo 2569/10 del corrente esercizio finanziario – "contributo diritti amministrativi" entro 10 giorni dal ricevimento della presente.

Alla presente autorizzazione viene assegnato il nr. DGPGR-III/0550R/2008.

Si rappresenta che per il conseguimento dell'autorizzazione generale per il servizio di comunicazione espletato mediante l'autorizzazione di rete di cui in oggetto, è propedeutico aver conseguito l'autorizzazione generale di cui all'art. 183, comma 2 del D.L.vo nr. 259 - Codice delle Comunicazioni Elettroniche.

Il Direttore Generale a.i.

(Ing. Francesco Troisi)

Attachment 5

Technical Specifications of C-Band 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	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B**	4169.0	1024	6390.0	1024
Costa Classica	2.4M Orbit 7108 Cband system	5.9 - 6.4Ghz	41.5dB @ 6.15Ghz	20 watts	54.7dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	New Skies NSS12	4167.0	1024	6393.0	1024
Costa Concordia	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Deliziosa	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Europa	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Fortuna	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Magica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Marina	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Mediterranea	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Romantica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	New Skies NSS12	4167.0	1024	6393.0	1024
Costa Serena	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	25 watts	55.2dB	0 degrees	0.1 deg RMS	1	256	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Victoria	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Allegra	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.2 deg RMS	1	1008	QPSK	MCPC/TDMA	New Skies NSS12	4167.0	1024	6393.0	1024
Costa Pacifica	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	Intelsat 907 Global B	4169.0	1024	6390.0	1024
Costa Luminosa	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	New Skies NSS12	4167.0	1024	6393.0	1024
Tidewater Nautical Tide	2.8M Orbit 7109 Cband system	5.9 - 6.4Ghz	42dB @ 6.15Ghz	20 watts	55.2dB	0 degrees	0.1 deg RMS	1	1008	QPSK	MCPC/TDMA	New Skies NSS12	4167.0	1024	6393.0	1024

*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

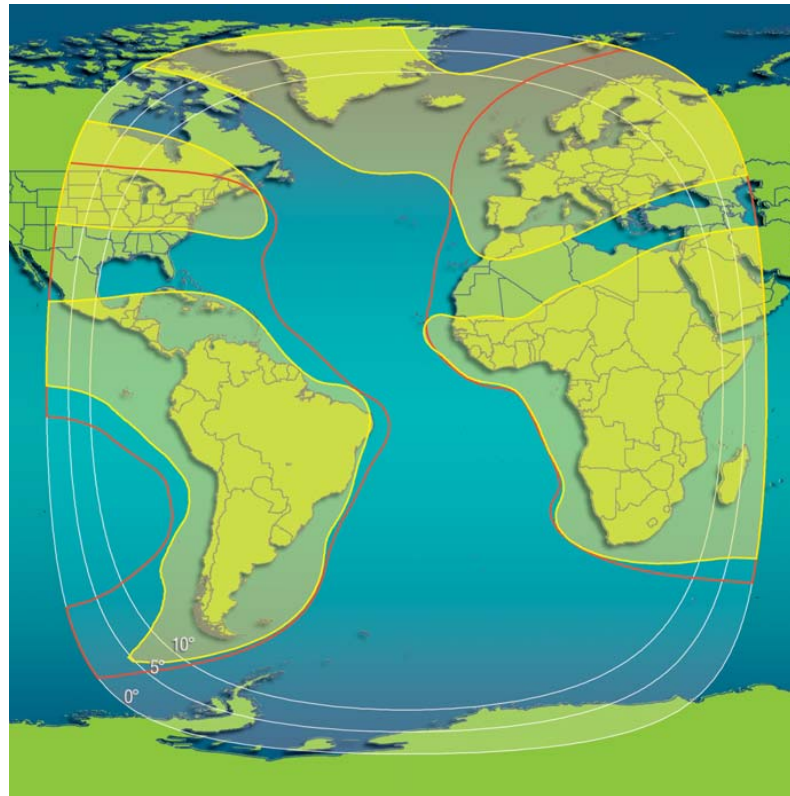
New Skies NSS12
Global Beam
SES World Skies
Provides service to MCS serviced vessels in Eastern Med and Indian Ocean Region

*** All vessels operate in a TDMA scheme, therefore each vessel uses the same downlink frequency and occupied bandwidth.

Attachment 6 Intelsat 907 Coverage Map

COVERAGE

Intelsat 907 began servicing our customers in 2Q03 by providing enhanced C-band coverage for the Americas, Africa and Europe and high-power Ku-band spot beam coverage for Europe and Africa. Deployed at 332.5°E, the IS-907 offers increased power and greater coverage. With high-powered Ku-band to Western Europe and West Africa – more than twice the current Ku-band power previously available from this location – the IS-907's split uplink and high power performance are ideal for supporting corporate VSATs, broadcast content distribution and broadband applications including high speed Internet access, multicasting and streaming.



Attachment 7 NSS-12 Coverage Map

COVERAGE

The satellite reaches an estimated two-thirds of the world's population. It features 40 C-band transponders and 48 Ku-band transponders with DTH power levels, as well as elaborate beam interconnectivity and C/Ku-band cross-strapping. The NSS-12 spacecraft was manufactured by Space Systems/Loral (SSL), a subsidiary of Loral Space & Communications

