



Mr. Thomas Weber  
European Communications Office  
Peblingehus  
Nansensgade 19  
DK-1366 Copenhagen K  
Denmark

January 18, 2011

Re: Notification under ECC Decision (05)11 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14.0-14.5 GHz (Earth-to-space), 10.7-11.7 GHz (space-to-Earth) and 12.5-12.75 GHz (space-to-Earth)

Dear Mr. Weber:

Row 44 hereby submits to the ECO this amended notification of Aircraft Earth Stations under ECC/DEC/(05)11. This amendment updates Row 44's previous notification to reflect changes in the satellite and transponders used. The Row 44 Aeronautical Mobile Satellite Service system will comply with the requirements listed in ECC/DEC(05)11.

The system and AES data required by Annex B of ECC/DEC(05)11 are attached to this letter.

Best regards,

A handwritten signature in black ink, appearing to read "Mike Pigott".

Mike Pigott  
Vice President Legal Affairs and General Counsel  
Row 44, Inc.

**Attachment:** Information required by Annex B of ECC/DEC(05)11 for Row 44 AMSS system and associated AESs.

Row 44, Inc.  
4353 Park Terrace Drive, Suite 100, Westlake Village, CA 91361  
818-706-3111

## Information required by Annex B of ECC/DEC(05)11 for Row 44 AMSS system and associated AESs

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### **Network Operator's designated point of contact**

**Title of contact:** Chris Brown

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**email address:** [cbrown@row44.com](mailto:cbrown@row44.com)

### **Network Control Facility (NCF) designated point of contact**

**Title of contact:** Michael Dromnitzki, Vice President Network Operations

**Postal address:**

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64347 Griesheim, Germany

**Telephone and fax numbers:** phone +0049 6155 844 144 • fax +49 (0)6155 844-280

**email address:** [M.Dromnitzki@Hugheseurope.com](mailto:M.Dromnitzki@Hugheseurope.com)

### **Technical Specifications of AES Equipment Used in the Network**

**Antenna type:** KuStream 1000, Horn Array

**Antenna size:** 62.5 cm x 15.7 cm

**Transmit peak gain:** 28.8 dBi

**Max e.i.r.p. per carrier:** 42.8dbW

**Transmit frequency bands:** 14.0 – 14.25 GHz

**Min. operating elevation:** 0 degrees

**Antenna pointing accuracy:** <0.2 degrees peak

### **Waveform characteristics**

**Number(s) of carriers per AES:** 1

**Occupied bandwidth(s) per carrier** (as defined in EN 302 186): 1.5 MHz

**Carrier centre frequency(-ies):** 14010,515 MHz and 14011,845 MHz (2 carriers)

**Modulation:** QPSK

**Multiple access scheme:** TDMA

### **ITU BR Filing Information**

**ITU BR filing satellite network name:** EUTELSAT 3-7E

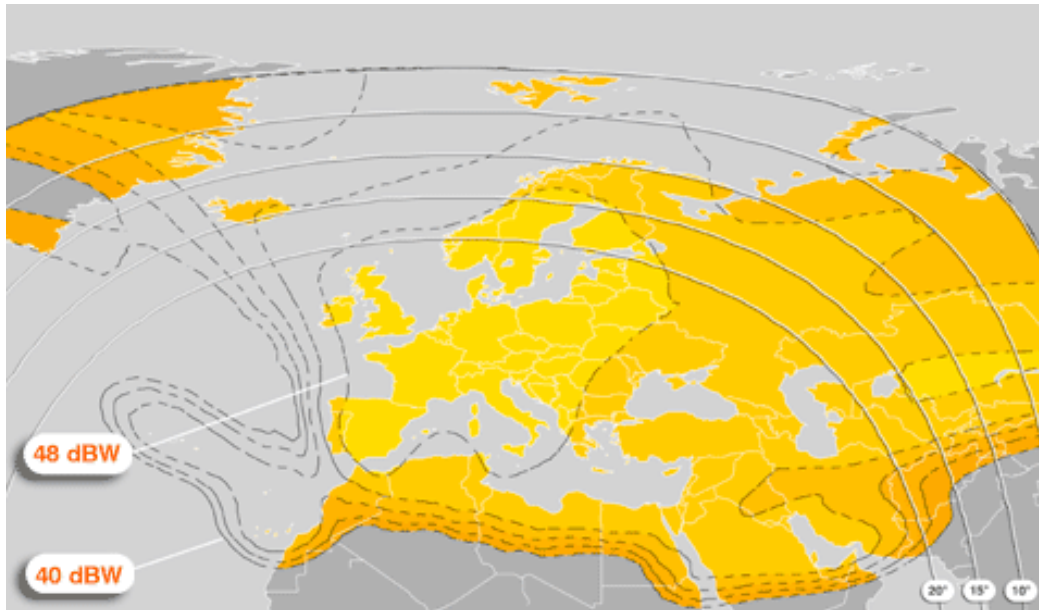
**ITU BR circular reference number:** 94540022 **date of publication:** 22.04.2003

**Satellite operator(s) (commercial) name:** Eutelsat W3A

**GSO longitude:** (East or West from Greenwich) 7 degrees East

**Satellite service area:**

**Figure 1: Eutelsat W3A Coverage**



### **Forward Channel details (Satellite to AES)**

**Transponder(s) downlink centre frequency:** 11241,5 MHz

**Transponder(s) downlink bandwidth:** 36 MHz

### **Return Channel details (AES to satellite)**

**Transponder(s) uplink centre frequency:** 14010,515 MHz and 14011,845 MHz (2 channels)

**Transponder(s) uplink bandwidth:** 2 x 1.5 MHz

The name of the airlines which will be using the Row 44 network system will be listed on the Row 44 website: <http://www.Row44.com>. As of the date of this filing, Row 44 will be providing service to Norwegian Air Shuttle.