

09 October 2013

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

Dear Mr Weber,

AMENDMENT OF NOTIFICATION BY ROW 44
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)

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 satellites and the transponders used, by adding additional capacity on Yamal 300. The system and AES data required by Annex B of ECC/DEC/(05) 11 are attached to this letter. The Row 44 system will comply with the requirements of that decision.

Please do not hesitate to contact me if you require any further clarification. We would appreciate confirmation of receipt of our notification.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Mike Pigott", with a long horizontal line extending to the right.

Mike Pigott
Vice President Legal Affairs
Row 44, Inc.

INFORMATION REQUIRED BY ANNEX B OF ECC/DEC/(05) 11 FOR ROW 44 AMSS SYSTEM

Network Operator's designated point of contact

Title of contact: Chris Brown

Postal address: 820 Springer Drive, Lombard, IL, USA 60148-6413

Telephone and fax numbers: phone +1.630.620.0472 • fax +1.630.268.1308

email address: cbrown@row44.com

Network Control Facility (NCF) designated point of contact

Title of contact: Michael Dromnitzki, Vice President Network Operations

Postal address:

Hughes Network Systems GmbH

Ottostraße 9

64347 Griesheim, Germany

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

email address: 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 in conformance with requirements of ETSI EN 302 186

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

1. Previous satellite notified: Yamal-300

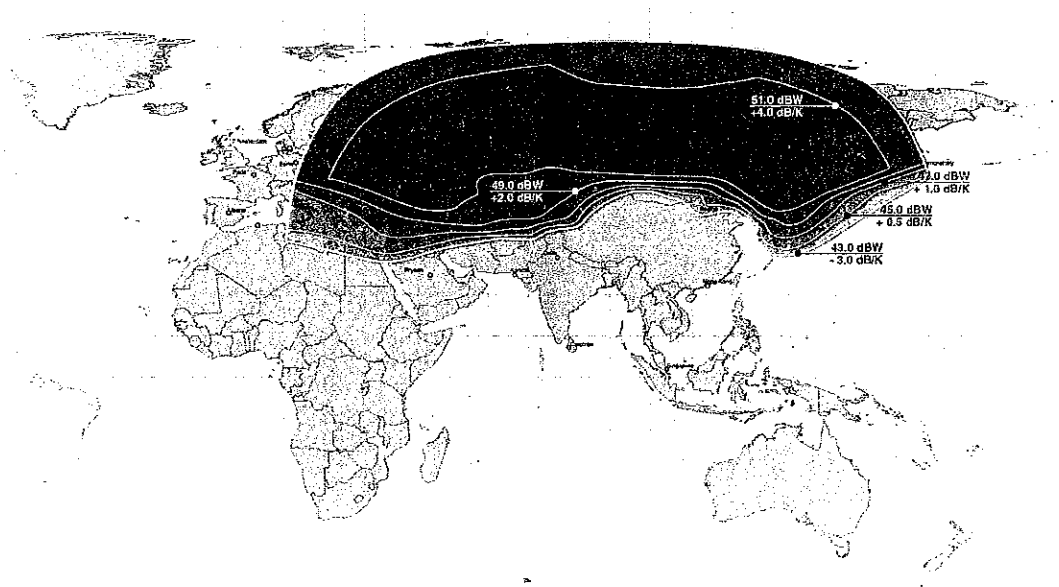
ITU BR filing satellite network name: YAMAL-FSS-90E

ITU BR special section reference: RES49 1653 date of publication: 30.04.2013

Satellite operator(s) (commercial) name: Yamal-300

GSO longitude: (East or West from Greenwich) 90E

Satellite service area: Figure 1: Yamal-300 Ku Band Coverage Area



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency: 11680.37 MHz

Transponder(s) downlink bandwidth: 36 MHz

Return Channel details (AES to satellite) Two discrete inroutes

1. Transponder uplink centre frequency: 14076.650 MHz

Transponder(s) uplink bandwidth: 10500 kHz Slot Bw

AND

2. **Transponder uplink centre frequency:** 14247.650 MHz
Transponder(s) uplink bandwidth: 10500 kHz Slot Bw

The current list of the airlines which will be using the Row 44 network system is listed on the Row 44 website: <http://www.Row44.com>.