

Panasonic

6 May 2015

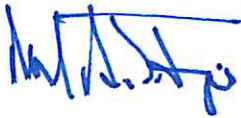
Mr Thomas Weber
European Communications Office
Peblingehus, Nansensgade 19
DK-1366 Copenhagen
Denmark

Dear Mr. Weber,

Panasonic Avionics Corporation hereby submits to the ECO this amendment notification of the network submitted under the ECC Decision (05)11 on the free circulation and use of Aircraft Earth Stations (AES) in the frequency bands 14-14.5GHz (Earth-to-space), 10.7-11.7GHz (Space-to-earth) and 12.5-12.75GHz (Space-to-earth).

The parameters of the network operated by Panasonic Avionics Corporation for its dual panel antenna terminal (previously called AURA LE Antenna) are attached to this letter.

Thanks and best regards,



Mark DeFazio
Manager, GCS Regulatory and Business Operations
Panasonic Avionics Corporation

ANNEX B

PARAMETERS THAT NEED TO BE SUBMITTED BY AES NETWORK OPERATORS TO THE OFFICE

- Points of Contacts**

Network Operator's designated point of contact

Title of contact	Mark DeFazio
Postal address	Panasonic Avionics Corporation 26200 Enterprise Way Lake Forest, CA 92630 USA
Telephone and fax numbers	Tel: +1 949-462-1683; Fax: +1 949-462-7100
E-mail address	Mark.DeFazio@panasonic.aero

Network Control Facility (NCF) designated point of contact

Title of contact	As above
Postal address	As above
Telephone and fax numbers	As above
E-mail address	As above

- Technical Specification(s) of AES equipment type(s) used in the network**

AES Antenna

Antenna type	Dual panel waveguide fed phased array
Antenna size	89cm x 16.5cm
Transmit peak gain	38 dBi
Max e.i.r.p. per carrier	48 dBW
Transmit frequency bands	14 – 14.5 GHz
Min. operating elevation	7° when on the ground¹ and otherwise conformant to the requirements of EN 302 186
Antenna pointing accuracy	Error <0.25° RMS (EL) & <0.15° RMS (AZ)

Waveform characteristics

Number(s) of carriers per AES	1	
Occupied bandwidth(s) per carrier (as defined in Harmonised Standard EN 302 186)		See table below
Carrier center frequency(-ies)	See table below	
Modulation	BPSK	
Multiple access scheme	TDMA	

Satellite	Occupied bandwidth per carrier (MHz)	Carrier center frequencies (MHz)
Eutelsat W2A	3.9	1 carrier: 14023.89
	23.4	1 carrier: 14065.8
Telstar T14R	17.7	1 carrier: 14010.85
	5.5	1 carrier: 14099.25
Telesat T11N	16	1 carrier: 14231
Asiasat-5	15	1 carrier: 14130.5
SES-6	16	1 carrier: 14275
Intelsat IS-14	15.6	1 carrier: 14192.8

¹ Panasonic Avionics Corporation is aware of the fact that in some countries operation of AES when the aircraft is on the ground, is subject to prior agreement with administrations and/or airport authorities and/or Civil Aviation Authorities

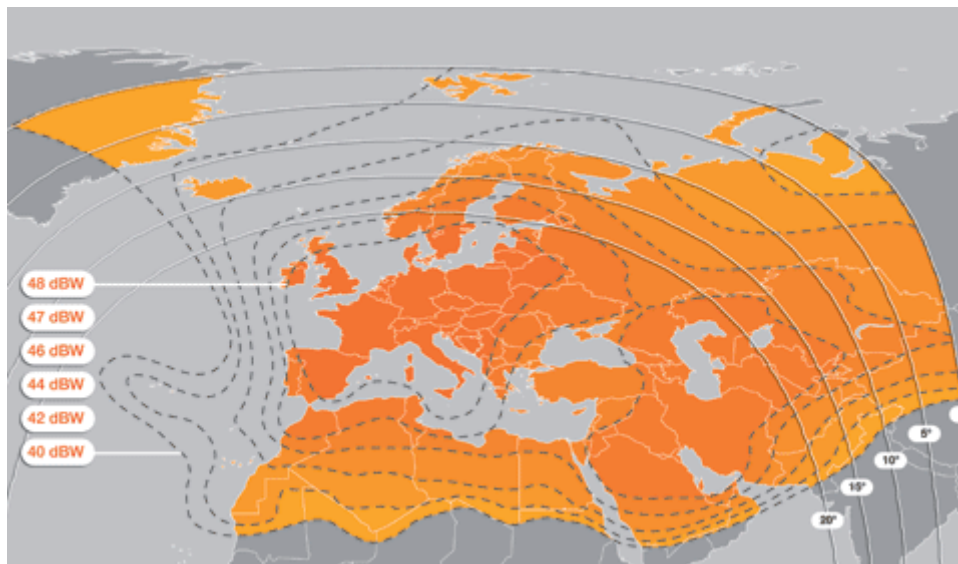
Yamal-401	72	1 carrier: 14380
Eutelsat E70B	2.6	1 carrier: 14175.62
	10.4	1 carrier: 14239.13

- **Operating details of each satellite**

Eutelsat W2A

ITU BR Filing Information

ITU BR filing satellite network name **Eutelsat 2-10E (Tx); Eutelsat3-10E (Rx)**
 ITU BR circular reference number and date of publication **IFIC 2553 (AES Tx), IFIC 2616 (AES Rx)**
 Satellite operator(s) (commercial) name **Eutelsat W2A**
 GSO longitude (East or West from Greenwich) **10E**
 Satellite service area (text description and/or a figure of the area) **R1 (AES Tx), BSR (AES Rx) (see below)**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11471.41 MHz and 11262.5 MHz**
 Transponder(s) downlink bandwidths **36 MHz**

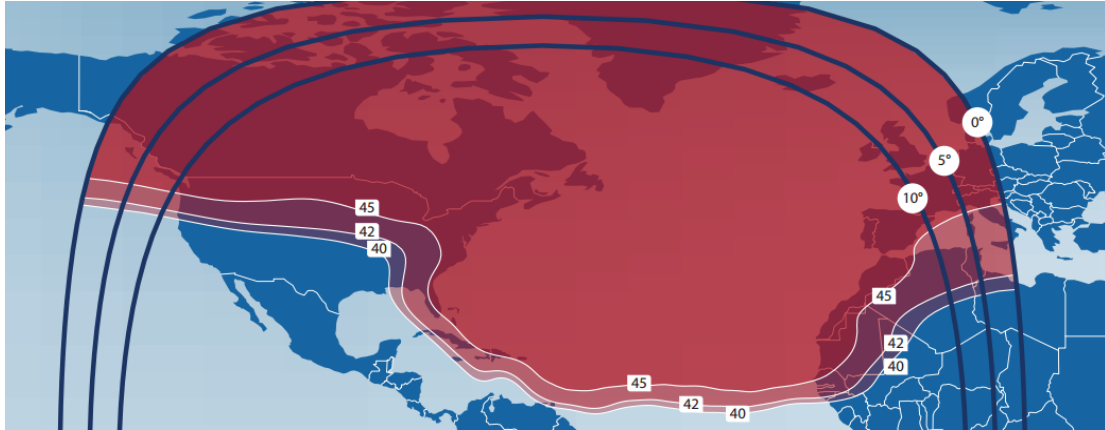
Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14041.67 MHz**
 Transponder(s) uplink bandwidth **72 MHz**

Telstar T14R

ITU BR Filing Information

ITU BR filing satellite network name **B-SAT I**
 ITU BR circular reference number and date of publication **IFIC 2618**
 Satellite operator(s) (commercial) name **Telstar T14R**
 GSO longitude (East or West from Greenwich) **63W**
 Satellite service area (text description and/or a figure of the area) **North Atlantic Ocean Region**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11470 MHz and 11634 MHz**
 Transponder(s) downlink bandwidths **36 MHz**

Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14020 MHz and 14105 MHz**
 Transponder(s) uplink bandwidth **36 MHz**

Telesat T11N

ITU BR Filing Information

ITU BR filing satellite network name **USASAT-26A**
 ITU BR circular reference number and date of publication **IFIC 2699**
 Satellite operator(s) (commercial) name **Telesat T11N**
 GSO longitude (East or West from Greenwich) **37.5W**
 Satellite service area (text description and/or a figure of the area) **Atlantic Ocean**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11587.5 MHz**
 Transponder(s) downlink bandwidths **27 MHz**

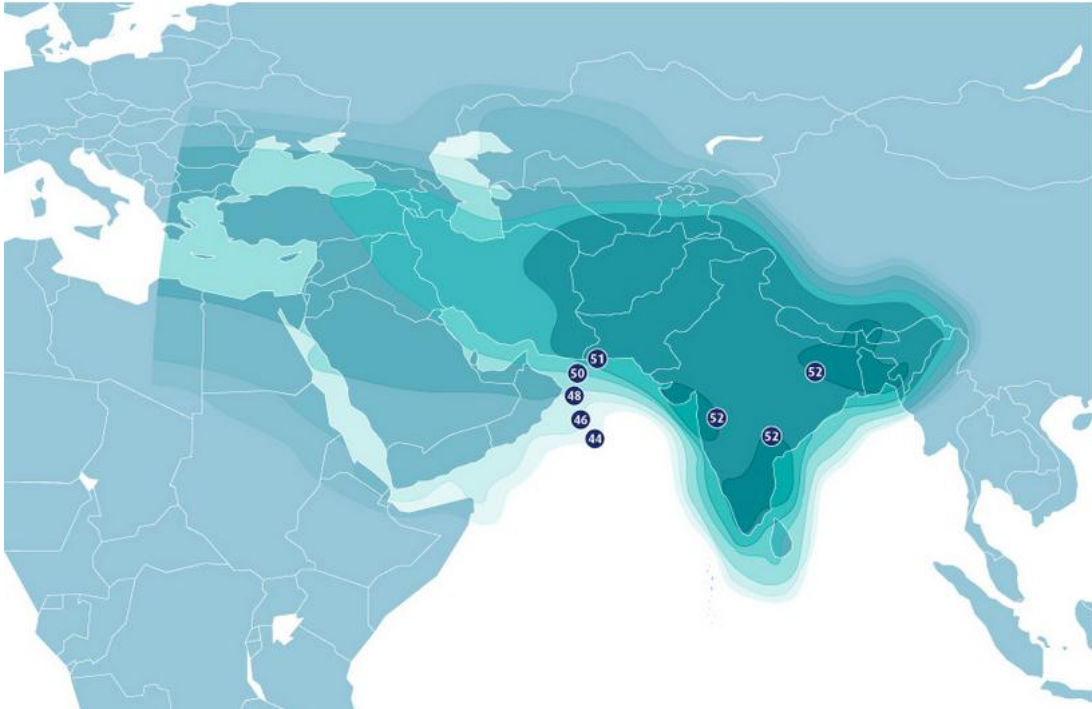
Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14212 MHz**
 Transponder(s) uplink bandwidth **54 MHz**

Asiasat-5

ITU BR Filing Information

ITU BR filing satellite network name **ASIASAT-EKX**
ITU BR circular reference number and date of publication **IFIC 2656**
Satellite operator(s) (commercial) name **Asiasat-5**
GSO longitude (East or West from Greenwich) **100.5E**
Satellite service area (text description and/or a figure of the area) **South Asia**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **12462 MHz**
Transponder(s) downlink bandwidths **54 MHz**

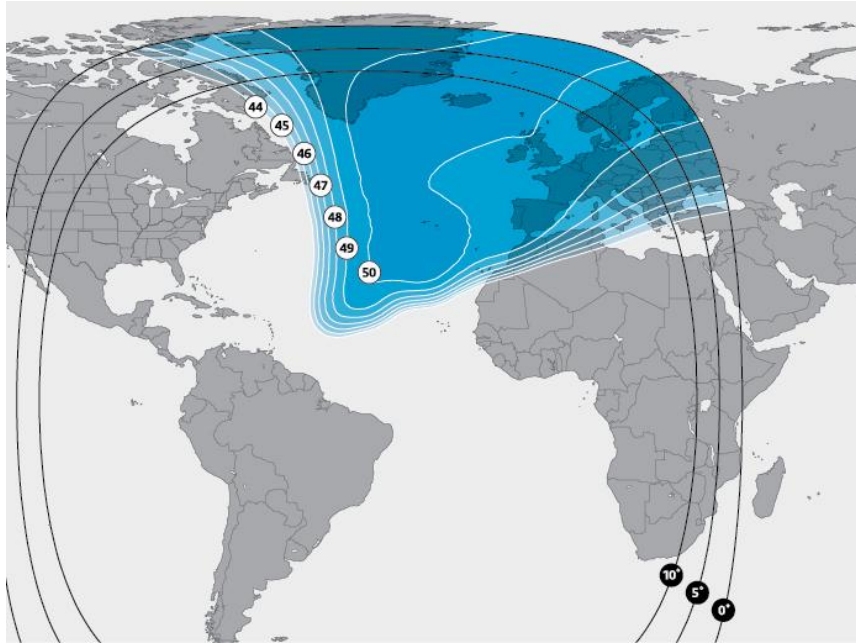
Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14150 MHz**
Transponder(s) uplink bandwidth **54 MHz**

SES-6

ITU BR Filing Information

ITU BR filing satellite network name **NSS-18, NSS-35, NSS-57**
ITU BR circular reference number and date of publication **IFIC 2669 (NSS-18), IFIC 2712 (NSS-35) and IFIC 2759 (NSS-57)**
Satellite operator(s) (commercial) name **SES-6**
GSO longitude (East or West from Greenwich) **40.5W**
Satellite service area (text description and/or a figure of the area) **East Atlantic**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11155 MHz**
 Transponder(s) downlink bandwidths **72 MHz**

Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14375 MHz**
 Transponder(s) uplink bandwidth **216 MHz**

Intelsat IS-14

ITU BR Filing Information

ITU BR filing satellite network name **USASAT-13I**
 ITU BR circular reference number and date of publication **IFIC 2574**
 Satellite operator(s) (commercial) name **Intelsat IS-14**
 GSO longitude (East or West from Greenwich) **45W**
 Satellite service area (text description and/or a figure of the area) **Europe/Africa beam**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11550 MHz**
 Transponder(s) downlink bandwidths **36 MHz**

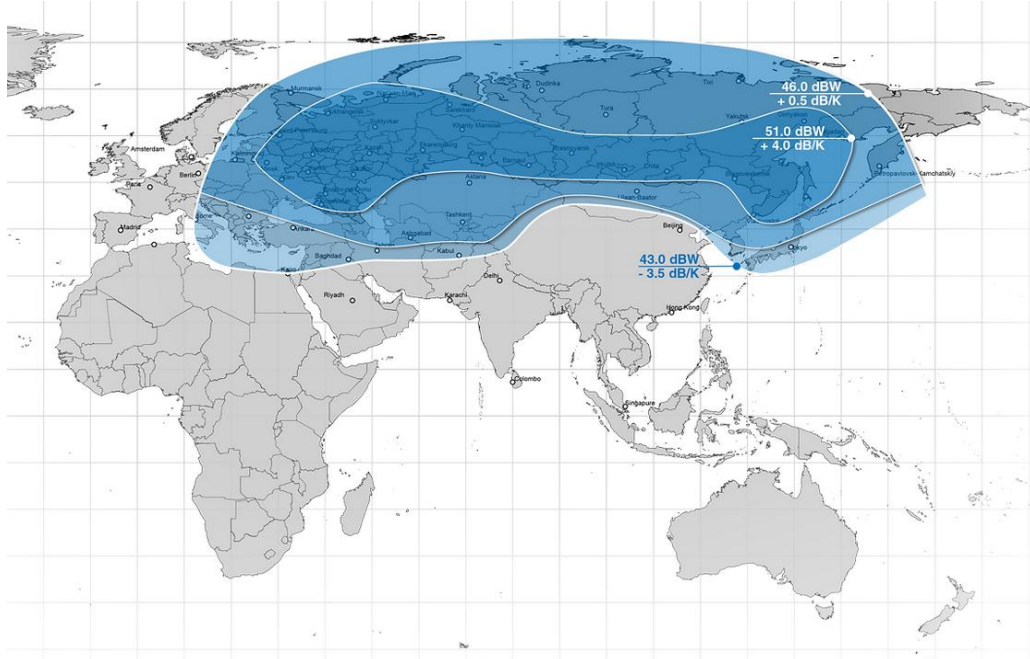
Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14202 MHz**
 Transponder(s) uplink bandwidth **72 MHz**

Yamal-401

ITU BR Filing Information

ITU BR filing satellite network name **EXPRESS-7C**
 ITU BR circular reference number and date of publication **IFIC 2746**
 Satellite operator(s) (commercial) name **Yamal-401**
 GSO longitude (East or West from Greenwich) **90E**
 Satellite service area (text description and/or a figure of the area) **Northern Beam 1**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11580 MHz**
 Transponder(s) downlink bandwidths **72 MHz**

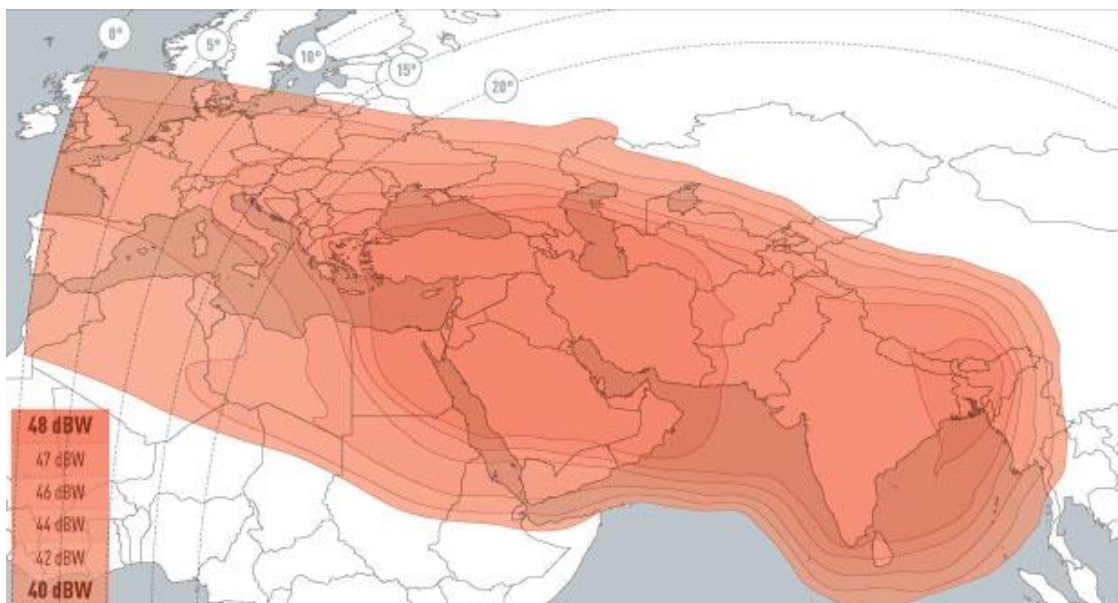
Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency **14380 MHz**
 Transponder(s) uplink bandwidth **72 MHz**

Eutelsat E70B

ITU BR Filing Information

ITU BR filing satellite network name **EUTELSAT 3-70.5E**
 ITU BR circular reference number and date of publication **IFIC 2682**
 Satellite operator(s) (commercial) name **Eutelsat E70B**
 GSO longitude (East or West from Greenwich) **70.5E**
 Satellite service area (text description and/or a figure of the area) **Widebeam**



Forward Channel details (Satellite to AES)

Transponder(s) downlink centre frequency **11356.25 MHz**
 Transponder(s) downlink bandwidths **72 MHz**

Return Channel details (AES to satellite)

Transponder(s) uplink centre frequency	14208.33 MHz
Transponder(s) uplink bandwidth	72 MHz

- **Other details**

In addition the AES network operators needs to notify the Office of the name of the airlines which will be using their network system. Alternatively, operators could provide to the Office a link to their webpage containing this information.

See www.panasonic.aero/