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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 15 June 2016 from the Permanent Mission of Mexico to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Mexico to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit information on Mexican satellite E117WB (SATMEX 9) (see annex).

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Annex

Registration data on a space object launched by Mexico*

E117WB (SATMEX 9, Eutelsat 117 West B)

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of object launched:	E117WB (SATMEX 9, Eutelsat 117 West B)
Name of launching State:	Mexico
Other launching States:	United States of America
Date of launch:	14 June 2016
Territory or location of launch:	Cape Canaveral Air Force Station, Florida, United States of America
Basic orbital characteristics	
Geostationary orbit location:	117 degrees West
Inclination:	± 0.05 degrees
Longitudinal tolerance:	± 0.05 degrees
General function of space object:	Communications satellite
Date of decay/re-entry/deorbit:	20 December 2031 (expected date)

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator:	Satélites Mexicanos, S.A. de C.V. (Eutelsat Americas)
Launch vehicle:	Falcon-9 v1.1
Website:	www.spacex.com

Technical details for E117WB

Orbital position:	117 degrees West
Number of transponders:	2 L-band 2 extended C-band 48 extended Ku-band (36 MHz)
Date of launch:	14 June 2016
Entry into service:	March 2017
Estimated useful life:	15 years
Type:	Communications satellite

* The registration data are reproduced in the form in which they were received.

Satellite platform:	702SP (Small Platform)
Entry into service:	March 2017
Dimensions of satellite	
Length:	32.6 metres
Width:	8.3 metres
Height:	4.8 metres
Deployed area of solar arrays:	51.7 square metres
Type of orbit:	Geostationary
Orbit altitude:	36,000 kilometres
Stabilization mode:	Triaxial
Precision maintenance:	East/West ± 0.05 degrees North/South ± 0.05 degrees
Precision of antenna positioning:	Antenna pointing ≤ 0.1 degrees
Weight of satellite:	2,221.5 kilograms
Launch vehicle:	Falcon-9 v1.1

Transponders

Frequency band	*Bandwidth per transponder*	*Bandwidth*
L-band (Wide Area Augmentation System)	1166.20-1186.70 MHz (L5) 1565.17-1586.70 MHz (L1)	20 MHz
Extended C-band	3400-3700 MHz (space-Earth) 6425-6725 MHz (Earth-space)	300 MHz
Extended Ku-band	10.95-11.20 GHz (space-Earth) 11.45-11.70 GHz (space-Earth) 13.75-14.00 GHz (Earth-space) 14.50-14.80 GHz (Earth-space)	500 MHz