United Nations





Distr.: General 16 August 2016 English Original: Spanish

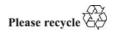
Committee on the Peaceful Uses of Outer Space

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).

V.16-05140 (E) 220816 230816



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 |
| Туре: | 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 \pm 0.05 degrees North/South \pm 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 | Bandv | width per transponder | Bandwidth |
| L-band (Wide Area Augmentation System) | | 20-1186.70 MHz (L5) 17-1586.70 MHz (L1) | 20 MHz |
| Extended C-band | | 3700 MHz (space-Earth) 6725 MHz (Earth-space) | 300 MHz |
| Extended Ku-band | 11.45- 13.75- | -11.20 GHz (space-Earth) -11.70 GHz (space-Earth) -14.00 GHz (Earth-space) -14.80 GHz (Earth-space) | 500 MHz |