



Implementation of the LTS Guidelines in South Africa

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South African Regulatory Regime for Space



- Department of Trade, Industry & Competition (dtic) is responsible for National Space Policy
- Department of Science & Innovation (DSI) is responsible for National Space Strategy
- Department of Communications & Digital Technologies is the lead Department for Satellite Communications including co-ordination and notification of all satellite activities to the ITU

South African Regulatory Regime for Space



- South African Council for Space Affairs (SACSA) is responsible for the regulation and licensing of national space activities
 - SACSA reports to the dtic

- South African National Space Agency (SANSA) is responsible for the implementation of the national space strategy for all Government Departments
 - SANSA reports to DSI

National Legislation

Space Affairs are governed by the Space Affairs Act 1993

- Establishes SACSA as the Regulatory Body for all Space related activities in the Country to undertake the following:
 - Take care of the interests, responsibilities and obligations of the Republic regarding its space and space-related activities in compliance with Conventions, Treaties and Agreements
 - Authorise space activities & Issue licenses
 - Regulate space activities
 - Advise the Minister on matters that have an influence on space affairs

- Mandates the Minister to develop the National Space Policy to be followed in the Republic

National Space Policy



- Informs the country's participation in space activities & provides the Framework for South Africa's space arena for all stakeholders
- Pursuit of space activities in SA to contribute to economic growth, creation of knowledge and sustainable development
- Encourages all SA stakeholders to be responsible users of the space environment according to international regulations

National Space Strategy

- Provide a framework for the co-ordination of all space related activities in South Africa
 - Environment and Resource Management
 - Health, Safety and Security
 - Innovation and Economic growth
 - Promote the peaceful use of outer space
 - Support the creation of an environment conducive to industrial development in space technologies
 - Foster research in astronomy, Earth observation, communications, navigation and space physics
 - Human capital development
 - Foster international co-operation in space related activities

SA Involvement in Development of LTS Guidelines



Dr Peter Martinez former Chair of SACSA chaired UNCOPOUS STSC WK on LTS Guidelines from 2010 to 2018

- South Africa has a strong connection & interest in LTS
- SA delegates participated in LTS WG

Implementation of LTS Guidelines



Guideline A.1

Adopt, revise and amend, as necessary, national regulatory frameworks for outer space activities

Guideline A.2

Consider a number of elements when developing, revising or amending, as necessary, national regulatory frameworks for outer space activities

Guideline A.3

Supervise national space activities

Implementation of LTS Guidelines



- South Africa is currently developing new legislation to replace the Space Affairs Act of 1993
- The new legislation will take into account the provisions of Guideline A.1, A.2, A.3
- Regulations will provide for the implementation of the LTS Guidelines

Implementation of LTS Guidelines



Guideline A.4

Ensure the equitable, rational and efficient use of the radio frequency spectrum and the various orbital regions used by satellites

- South Africa actively participates in ITU-R WP 4A (Efficient orbit/spectrum utilisation for FSS and BSS) and ITU World Radiocommunication Conferences.

Implementation of LTS Guidelines



Guideline A.5

Enhance the practice of registering space objects

Adopt, revise and amend, as necessary, national regulatory frameworks for outer space activities

- SACSA maintains a National Register of Space Objects
- All South African Space Objects are registered in terms of the provisions of the Registration Convention

Implementation of LTS Guidelines



Guideline B.7

Develop space weather models and tools and collect established practices on the mitigation of space weather effects

- Space Weather Centre under SANSA was launched in December 2010
- Collection, collation and sharing of information
- Mitigate anomalies for on-orbit operations
- South Africa is designated as a provider state for space weather information over Africa by the aviation sector, and is equipped to provide monitoring, forecasting and prediction services

Implementation of LTS Guidelines



Guideline C.4

Raise awareness of space activities

- SACSA holds workshops with the space sector (Government, Academia & Private Industry) on International Treaties & Obligations

Thank You