

The participation of Libya in the CTBT verification regime

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INTRODUCTION

To monitor compliance with the comprehensive nuclear test ban treaty (CTBTO), Libya contributes to the main component of the verification regime (International Monitoring System). Libya is working with the CTBTO on the establishment of the IMS radionuclide station RN41 which is under planning.

METHODS/DATA

The Nuclear Research Centre in Libya is hosting the National Data Centre and responsible of the coordination with the CTBTO for the installation of the IMS station RN41 in Libya

START

RESULTS

Important progress in planning the installation of the IMS radionuclide station RN041 (Misratah, Libya), the establishment of the National Data Centre, the use of IMS data and IDC products in the context of NDC4All announced by the CTBTO Executive Secretary, and progress in building the On-Site inspection capacity in Libya.

CONCLUSION

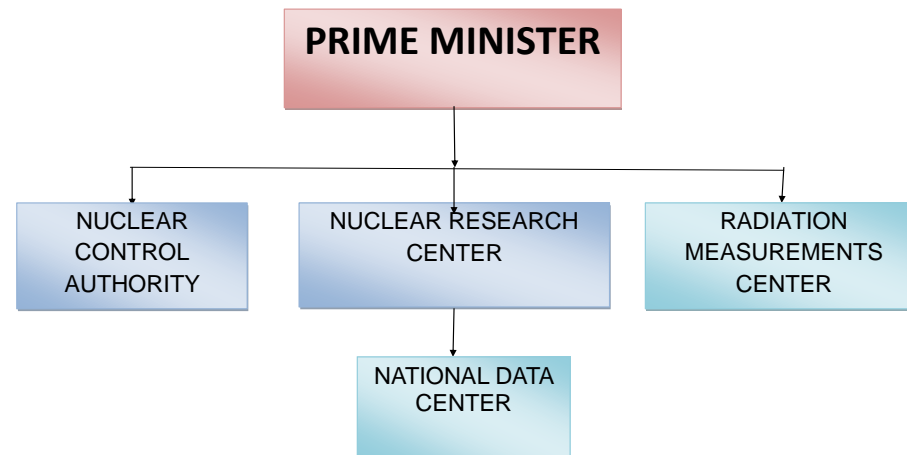
Libyan contribution to the verification regime of the CTBTO is growing and to be more efficient, more support from the CTBTO is needed regarding the training of the NDC staff and the potential Station Operators and Managers in the context of installation of the RN41 and a Capacity Building System in the NDC.



- To monitor compliance with the comprehensive nuclear test ban treaty (CTBTO), a verification regime is designed to detect any nuclear explosion conducted anywhere – underground, under water or in the atmosphere.
- Libya signed the treaty on **13 Nov 2001** and ratified on **06 Jan 2004**.
- The radionuclide station RN041 (Misratah, Libya) is planned to be installed as part of the International Monitoring System network and a PPOC was nominated.



- The National Data Centre was established in the Nuclear Research Center and a TPOC was nominated.



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Contribution to the verification regime of the CTBTO



Libya is actively enhancing its contribution to the verification regime of the CTBTO. We are collaborating with the CTBTO on the installation of the International Monitoring System (IMS) radionuclide station RN041 in Misratah, and improving the capabilities of our National Data Centre as part of the NDC4All initiative announced by the CTBTO Executive Secretary. Additionally, we are working towards building our On-Site inspection capacity.



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Cooperation and activities with the CTBTO and National Authorities



Several meetings held in Vienna with CTBTO colleagues to speed up the process and to put in place a road map of installation of RN41. We are working with national authorities on the preparation of the station location and required infrastructures.

NDC staff and Station Operators started participation in available trainings offered by the CTBTO to improve their skills to be able to contribute efficiently to the verification regime of the CTBT.

Libyan NDC is working to get support from the CTBTO regarding the provision of a Capacity Building System.



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Secure Account:

Secure Signatory account has been established by Libya on 07 Oct 2004.

The number of principal users, regular users and station operators is as follows:

PU = 3 RU = 0 SO = 0 Total: 3

NDC Status	Status of NDC Activities	TPOC User
NDC is being established	NDC is using IMS data and/or IDC products for testing purposes only	Abdurahim Ali Omar Sasi

Trainings:

NDC staff participated in some trainings provided by the CTBTO



RN41:

A visit to the Site location where the RN41 station will be installed to know the existing infrastructure and all what is required for the construction and installation of the Station.



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Installation of the RN41: It is required to speed up the process of installation of the RN41 in full coordination with CTBTO and National Authorities and to provide trainings to the potential station operators, technical staff and station manager.

National data Centre: The established National Data Centre is using IMS data and IDC products, but a provision of a Capacity Building System (CBS) is required to be able to receive data in near real time and efficiently use the NDC-in-A-Box package.

Trainings: The NDC staff participated in some trainings provided by the CTBTO including the NDC Training for Arabic Speaking NDCs. The IDC approach for multilingual trainings, especially with the Arabic language is a very important asset for us to be more involved in the verification regime.

Technology and Tools: As the IMS use 4 technologies (Seismic, Infrasound, Hydroacoustic and radionuclide), it is important to provide necessary knowledge to the NDCs regarding the screening of events and the synergy between different technology used to monitor the earth for nuclear explosions.



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