

## **4.3-P5. Preventative Maintenance for Sustaining the International Monitoring System**

The International Monitoring System (IMS) Network of the Comprehensive Nuclear-Test Ban Treaty (CTBT), is to consist of 337 monitoring facilities, scattered around the globe, of four different technologies. One of the mandates of the Provisional Technical Secretariat (PTS), in cooperation with the Station Operator and Host Country is to ensure that the global network remains operational and reliable. The entire system life cycle starts with conceptual design, followed by fabrication and installation/ to operation and maintenance until it is disposed of and replaced. This is referred to as through life sustainment. Optimal and cost effective sustainment of the network can be achievable only through proper planning and execution. The IMS Monitoring Facilities Support, maintenance team is responsible for the oversight associated with maintenance of the monitoring facilities. Regular tasks consist of planned & scheduled maintenance, unscheduled maintenance, repair and replacement (out of lifecycle). This paper details how sustaining the facilities through preventative maintenance and adopting practices such as maintenance planning and document management can have important long term benefits and can ensure that the CTBT network remains operational, reliable and credible.

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