ID: Type: **Oral**

in the integration of onsite calibration capability at IMS stations - Towards measurement quality assurance

In the report of its 43rd session published in September 2014, Working Group B tasked the PTS to integrate a passive calibration technique based on side-by-side comparison into the IMS infrasound network. IS26 (Freyung, Germany) was selected as a pilot station, and the technique was installed there in May 2015. In this work, we present the integration of the calibration technique at IS26. We then discuss the need for Measurement Quality Assurance, a set of processes, methods and procedures that will allow one to ensure that the calibrations we perform meet IMS quality management criteria. This entiles the allowable limits of measurement error, the reference base to which the measurements must be related, the properties of the measurement process and a means of assigning uncertainty to our measurements.

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Track Classification: 2. Infrasound Instrumentation