

## Action updated received by Email

**Action OF0301** DNs to confirm the recommended testing frequency for turbine meters, to ensure they are reasonable and followed.

**Date:** 14 May 2013

**Organisation:**

National Grid Distribution

**Abstract:**

**Testing Frequency of Turbine Meters.**

Engineering evidence tells us that NGD's existing regime is robust. As it stands, sealed for life turbine meters are removed for re-calibration (plus refurbishment as necessary) at 8 years with lubricated types at 12 years. Every year as part of the standard ME/2, visual checks and spin down tests are undertaken. Experience (and the metering community at large) informs us that these meters generally work well until they stop due to seizure (at which point you know about it and can mitigate against such a failure by operating on the standby stream etc). Performing a more frequent re-calibration would not come without risk and can compromise the site for a considerable period whilst the meter is away.

Additionally a report was commissioned (1999) with our service provider to look at requirements for recalibration of high pressure turbine meters. The report looked into a population of turbine meters used on the Dutch gas network where this technology is extensively utilised. The conclusion was that turbine meters were very stable and the accepted view in European countries where the majority of high pressure turbine meters are installed was that a period of 8 years for sealed bearing and 12 years for lubricated bearings was sufficient. It recommended that an annual spin down test and check is conducted. This is done on the National Grid high pressure turbine meters and records are available as part of ME/2 records.