

Action OF1203

“SC012 Kinknockie MRA MRB – Prior to the next meeting (29/01/13) DM to circulate further details relating to this error to enable reassessment of its potential level of significance.”

Response provided by Scotia Gas Networks (via email 21/12/12):

The requirements for the revalidation of offtake meters is documented within the suite of work procedures, T/PR/ME/2, which are maintained in accordance with the UNC by the Joint Office of Gas Transporters.

Work procedure for the 'Validation of equipment associated with measurement systems for the calculation of mass, volume and energy flow rate of gas, Part 3: Flow weighted average calorific value offtakes', T/PR/ME/2 part 3, includes the following requirement:-

Obtain a current high pressure calibration certificate for the turbine meter:

- i) Lubricated meters shall be recalibrated every twelve (12) years;
- ii) Non-lubricated meters shall be recalibrated every eight (8) years.

...the meter shall be removed and recalibrated in accordance with ISO 9951 at a suitably accredited facility.

(ref. procedure CP14b, page 73)

SGN has complied with this requirement in full. Due to the age of the meter, some movement in the calibration was noted.

SGN has gone much further than merely recalibrating this meter; we have invested in a new modern variant that is now installed and operational. The recalibration was undertaken only to ensure that ALL meter errors even those of a minor nature are identified and fully estimated as per the good practise in this area within SGN.

The recalibration defines the relevant K (correction) factors between actual and ideal readings for the meter at various points across the flow range. A straight forward comparison of these K factors and those in use within the flow computer allows the error to be derived. As such, with respect to Kinknockie, the generation of the meter error report was not complex. Furthermore, the scale of the meter error is substantially below the threshold for a Significant Meter Error.