NULL METER ERROR REPORT

FINAL

Reconcile?	N
Safety Issue?	N
Thesis Report No.	N/A

1. EXECUTIVE SUMMARY

SITE NAME	HARDWICK
LDZ	SOUTH
LAST GOOD DATE	06/07/10
START DATE	06/07/10
END DATE	07/06/11
SIZE OF ERROR (No reconciliation required if under 0.1%)	<0.1%
ESTIMATE – Y/N?	N
ROOT CAUSE	Temperature transmitter error
ANALYSIS	N/A
METER TYPE	ORIFICE
AUTHOR	T Roberts
CHECKED BY	B Purl

2. BACKGROUND

Gas is supplied to part of the SoE network at Hardwick FWACV Offtake which employs an orifice plate meter to measure the volumetric flow rate in accordance with BS EN ISO 5167.

The results from the 2011 ME2 revalidation indicated a zero shift of approximately +0.47 degrees C on the temperature transmitter, outside the tolerance of +/- 0.1 degrees C.

3. ERROR QUANTIFICATION AND IMPACT

The temperature error of +0.4 degrees C results in an error on flowrate of approximately -0.13%. When divided by two as the start of the error in the period between ME2 revalidations is not known, results in a flowrate error of less than 0.1%

4. CAUSES

Calibration shift of the temperature transmitter.

5. RECOMMENDATIONS AND LEARNING

It is a recommendation of this report that a 'Null' result be recorded.

REFERENCES

2011 ME2 results

VERSION HISTORY

Version	*Changes*	*Author*	*Date*
Rev 1	*First draft*	*T Roberts*	*19/04/12*
Rev 1	*Final*	*T Roberts*	*03/05/12*

DISTRIBUTION

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