

**METER ERROR REPORT****FINAL**

Reconcile?	Y
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Safety Issue?	Y
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**1. EXECUTIVE SUMMARY**

SITE NAME	Littleton Drew	
LDZ	SW (Wales & West)	
START DATE (actual)	08 <sup>th</sup> January 2013	
LAST GOOD DATE		
END DATE	11 <sup>th</sup> January 2013	
SIZE OF ERROR (No reconciliation required if under 0.1%)	1435140 scm over registration (>0.1%)	
ESTIMATE – Y/N?	Y	
ROOT CAUSE	EBT Data entry issue after faulty turbine meter wiring	
ANALYSIS	Comparison of daily offtake flow against LDZ flow.	
METER TYPE	Turbine	
AUTHOR	C. Litster	
CHECKED BY	M. Gunn	
ACCEPTED BY NETWORK		
RECONCILIATION	Distribution	Transportation

**2. BACKGROUND**

Littleton Drew has a single turbine meter stream using a gas tracker for RD and PTZ correction.

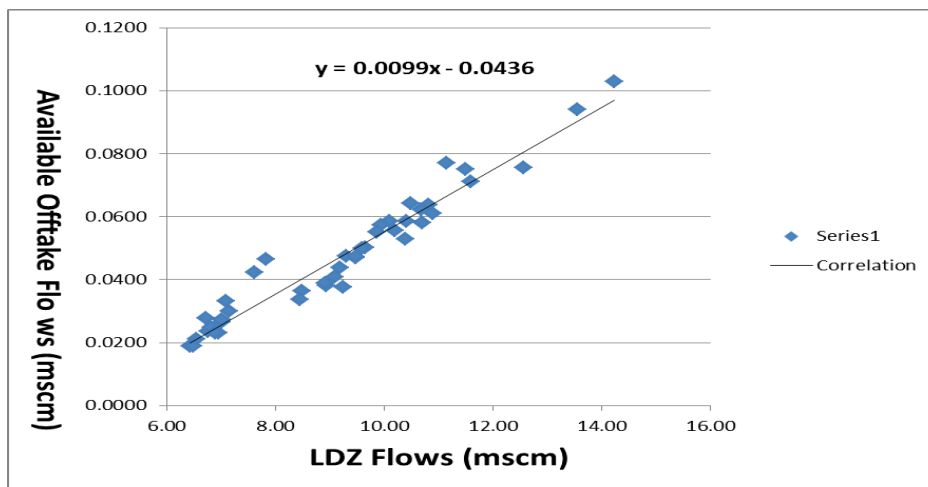
During the period from 06:31 on the 08<sup>th</sup> of January 2013 to 20:59 on the 12<sup>th</sup> January 2013 the pulse signal from the turbine meter to the flow computer was lost. When an E&I technician attended site it was found that the wiring connection to the turbine meter HF pickup was in poor condition due to the ingress of water.

The data entry after the fact for the days of 10<sup>th</sup> and 11<sup>th</sup> January were incorrectly entered by a factor of 10.

**3. ERROR QUANTIFICATION AND IMPACT**

The available LDZ demand against the known Littleton Drew daily flow, since the site was re-commissioned on 12<sup>th</sup> of November 2012, was plotted (see figure 1) and a linear fit to the data used to calculate the missing offtake daily flows.

**Figure 1 – LDZ Demand v Known Offtake Flows**



**4. CAUSES**

Fault to wiring connection to meter pickup due to the ingress of water.

**5. RECOMMENDATIONS AND LEARNING**

The error should be reconciled by applying the offtake daily flows detailed in Appendix A. The integrity of the connection to turbine meter HF pickup should be checked and replaced if appropriate.

**REFERENCES**

HPMIS Database.

**VERSION HISTORY**

<i>Version</i>	<i>Changes</i>	<i>Author</i>	<i>Date</i>
0	Second Issue	C. Litster	15/04/13

**DISTRIBUTION***Wales & West Utilities***APPENDIX A – Daily Corrected Flows**

<b>Gas Day</b>	<b>Corrected Daily Flow (mscm)</b>	<b>Incorrect Data Entry (mscm)</b>	
08/01/2013	0.06698		MER SW028 19/02/2013
09/01/2013	0.08114		Entered Correctly
10/01/2013	0.07886	0.7886	Entered Incorrectly
11/01/2013	0.08748	0.8748	Entered Incorrectly