

METER ERROR REPORT**FINAL**

Reconcile?	Y
Safety Issue?	Y
Thesis Report No.	

1. EXECUTIVE SUMMARY

SITE NAME	Asselby	
LDZ	Yorkshire	
START DATE (actual)	16/06/2010 (01:20)	
LAST GOOD DATE	N/A	
END DATE	16/06/2010 (16:56)	
SIZE OF ERROR (No reconciliation required if under 0.1%)	25.62% 27,509 scm (0.1956GWh)	
ESTIMATE – Y/N?	Y	
ROOT CAUSE	Failure of HF transmitter on Turbine meter	
ANALYSIS	Correction carried out by NGN system control during shift but did not account for full period.	
METER TYPE	Turbine	
AUTHOR	Ben Hanley	
CHECKED BY		
ACCEPTED BY NGN NETWORK		
RECONCILIATION	Distribution	Transportation

2. BACKGROUND

Asselby Offtake is a dual twin stream turbine metering system using a gas tracker for RD and CV determination and PTZ correction, consisting of a 38 bar and 7 bar system.

During the period from **01:20** on **16/06/10** to **16:56** on **16/06/10** the 7bar duty turbine meter stopped functioning.

At **12:07 16/06/10** NGN System Control raised the issue as a fault. An E&I technician attended site at **12:57**, the technician quickly diagnosed that the HF transmitter had stopped functioning and called a mechanical team to attend site to switch from the duty to standby meter. The technician also set the LGT plant to proportional to time and informed the Gas quality department of the lack of odourisation who ensured that the gas in the network was of a suitable odour.

The standby meter was made duty at **16:56** and the faulty meter stream was shut off, the LGT was then returned to proportional to flow.

When NGN system Control reviewed the data from site they found that the flow signal had been missing since **01:20 16/06/10**.

3. ERROR QUANTIFICATION AND IMPACT

Once the faulty metering stream had been swapped onto the standby stream, it was possible for NGN system control to estimate the amount of un-metered gas that had passed through the metering unit for the gas day. The volume correction made for the day of the incident was **42,295 scm**.

Further work was required to determine the un-metered gas for the previous gas day. It has been calculated that a further **27,509 scm (0.1956 GWh)** needs to be reconciled.

The faulty meter was removed from the line and sent for repair and recalibration at Bishop Auckland test centre.