UIG Task Force

3.1 : AQ calculation errors

Summary of Findings

Area & Ref #	3.1 AQ Calculation Errors
UIG Hypothesis	System logic errors resulting in either incorrect AQs (higher or lower) or not calculating AQs.
Data Tree References	Annual Quantity

Findings Status	**Closed**
UIG Impact Peak Volatility %	**N/A**
UIG Impact Annual Average %	**N/A**
Confidence in Percentages	**N/A**

Findings	Approach to analysis
We have identified an issue with the read validation logic for Meter Points with correctors fitted. The incoming read file format has a field for Corrector through the Zero count. As the corrected read is used for billing, the TTZ count is set to 1 in the read submission file only when the corrected reading rolls over. Where the uncorrected and corrected reads are significantly out of sync, the different registers can roll over during different read periods. If the uncorrected reading rolls over and the corrected reading does not the TTZ counter will be set to 0, and the uncorrected reading consequently appears lower than the latest read held by Xoserve. The read will be rejected with rejection code MRE00458 – uncorrected reading is lower than previous uncorrected reading. We have seen circa 15,000 rejections impacting 1,400 Meter Points to date. If legitimate corrected reads do not load in to UK Link then the impacted meter points will not reconcile and their AQs will not recalculate under the rolling AQ process. This means the sites latest consumption profile will not be reflected in it's AQ (and WAR band if appropriate) and consequently NDM allocation will be less accurate, contributing to UIG.	Extract list of meter points and reads rejected for reason code MRE00458. This issue was discovered during investigation in to the outliers in the NDM sample.