

- C. The Engineer shall be entitled to audit periodically the control system and be present when assessments are being computed.
- D. When requested by the Engineer the Contractor shall forward to the Engineer sufficient details and information for this audit assessment.
- E. Should any report fail to achieve the specified percentages for a particular pipe length, the Engineer shall require the Contractor to recode and resubmit the report. If the accuracy check fails, the Contractor shall repeat the full quality control check on 10 surveys, 5 surveys either side of the survey which has failed. If any further failures are found to be outside the tolerances laid down above within these additional checks, the process will be repeated until an acceptable standard is reached. Any reports that have failed will be re-coded by another qualified surveyor and submitted to the Engineer to replace those in his possession.
- F. Quality selection is achieved by using two parameters:
 - i. Population - the anticipated number of surveys carried out by one surveyor over a period of time (normally 1 year).
 - ii. Sample size - the number of surveys required to be checked to satisfy the quality control validity
- G. The sample surveys for quality control are to be selected by the use of computer generated random numbers (ERNI) or other such equivalent method and shall be 5% of the total population. Each surveyor shall have a different set of random numbers, which are sorted into chronological order, and are renewed once the population size has been reached. The random numbers shall not be disclosed to the surveyor until they have been used up.
- H. On site the surveyor logs certain information on the surveys being carried out and in the order in which they are surveyed.
- I. The "in-office" staff then count through the surveys that have taken place and copy those reports that coincide with the random numbers.
- J. A copy of the relevant section of the recording shall also be made available.
- K. Information on the recording and its contents are entered on a survey selection log.
- L. All header information shall be checked to ensure that left and right justified entries are correctly entered, alpha or numeric symbols are correctly used and all compulsory boxes filled in. The percentage of accurate entries shall be ascertained and any that fall below the value specified shall be rejected. All decimal percentage points shall be rounded down to the nearest whole number.