

ANALYSIS OF THE RELIABILITY OF THE WATER METERS USING THE FAULTS TREE METHOD

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Abstract: The paper presents the structure of the system considered – a type of water meter, the construction of the faults tree and the evaluation of the considered system according to the faults tree. The method of faults tree is a technique which is very useful in establishing fast all factors that can contribute to the occurrence of a undesired major operation in functioning of a system; it involves a thorough knowledge of system analysis, all functional particularities of the system and modes of failure for them. The faults tree for the water meter considered was developed by considering the logical scheme of reliability of a water meter; the critical event is considered to be the erroneous measurement of the considered water meter.

Key words: Reliability, faults tree, event, quantitative assessment, water meters.