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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A program was conducted to determine repeatability and linearity of the ultrasonic time-delay types of flowmeters, so that their applicability to leak detection on underwater pipelines could be assessed. Field tests using merchantable crude oil were conducted on two off-the-shelf, commercially available flowmeters at a refinery meter proving station. These tests showed a short- term repeatability of 0.2 percent for both meters. Long-term		

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