

FLIGHT TEST VALIDATION OF THE RQ-4 BLOCK 20 GLOBAL HAWK AERODYNAMIC AND PROPULSIVE MODELS

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ABSTRACT

This paper discusses the flight test techniques and data analysis methods used to perform flight test validation of the RQ-4 Block 20 Global Hawk aerodynamic and propulsive models. Results from modeling and simulation and flight test are presented and compared. Two case studies of using modeling and simulation in performance and flying qualities flight testing are discussed. Finally, several lessons learned during the RQ-4 envelope expansion flight test program are presented.