

# Crew and Display Concepts Evaluation for Synthetic Enhanced Vision Systems



Crew and Display Concepts  
Evaluation for Synthetic  
Enhanced Vision Systems

NASA Technical Reports Server  
(NTRS), et al., Randall E. Bailey

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## Reviews

*A really awesome publication with perfect and lucid reasons. I was able to comprehended every thing using this published e pdf. It is extremely difficult to leave it before concluding, once you begin to read the book.*

*(Prof. Patsy Blanda)*

## CREW AND DISPLAY CONCEPTS EVALUATION FOR SYNTHETIC ENHANCED VISION SYSTEMS

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. NASA's Synthetic Vision Systems (SVS) project is developing technologies with practical applications that strive to eliminate low-visibility conditions as a causal factor to civil aircraft accidents and replicate the operational benefits of clear day flight operations, regardless of the actual outside visibility condition. Enhanced Vision System (EVS) technologies are analogous and complementary in many respects to SVS, with the principle difference being that EVS is an imaging sensor presentation, as opposed to a database-derived image. The use of EVS in civil aircraft is projected to increase rapidly as the Federal Aviation Administration recently changed the aircraft operating rules under Part 91, revising the flight visibility requirements for conducting operations to civil airports. Operators conducting straight-in instrument approach procedures may now operate below the published approach minimums when using an approved EVS that shows the required visual references on the pilot's Head-Up Display. An experiment was conducted to evaluate the complementary use of SVS and EVS technologies, specifically focusing on new techniques for integration and/or fusion of synthetic and enhanced vision technologies and crew resource management while operating under the newly adopted FAA rules which provide operating credit for EVS. Overall, the experimental data showed that significant improvements in SA without concomitant increases in workload and display clutter could be provided by the integration and/or fusion of synthetic and enhanced vision technologies for the pilot-flying and the pilot-not-flying. This item ships from La Vergne, TN. Paperback.



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