

Enhanced Flight Vision System (EFVS) Application Guide

Part 91K MSpec MC048

(Revision 0: 3/8/2021)

Purpose. This guide consolidates the items specified in Advisory Circular 90-106 (current version) necessary for Flight Standards to process a part 91K program manager's application to conduct EFVS operations under § 91.176(a) or (b). This guide aids AFS personnel in determining the acceptability of a program manager's application for EFVS operation and provides for an efficient and timely review. Program managers should refer to AC 90-106 (current version) for the explanation of what is recommended versus what is a regulatory requirement. This guide is a companion to that AC but does not constitute the only way to comply with recommended items.

Guidance for Principal Inspectors. Prior to accepting an applicant's EFVS application, the Principal Inspector must ensure the proposal contains documentation that demonstrates compliance with each applicable requirement.

1. To assist applicants with organizing their application, provide them with a copy of this checklist during the initial meeting and advise them to complete the checklist and include it as part of their application.
2. When the program manager's application is received, complete your review of the exhibits using their checklist as reference.

Note: Resolve any items in this checklist missing from the application with the applicant prior to authorizing MC048. Contact Flight Technologies and Procedures Division, EFVS Policy Point of Contact (POC) for assistance.

Guidance for Part 91K Applicants. An application is required to gain FAA authorization of MSpec MC048 for operations to be conducted under § 91.176(a) and/or (b). To assist in processing the authorization the applicant should use the checklist to prepare acceptable exhibits for the MSpec application.

1. Review AC 90-106 EFVS current version.
2. Complete Parts 1 & 2 of the *EFVS Operator Application Guide*.
3. Include supporting documents
4. Forward application to the Principal Inspector,
5. Complete the checklist for each Make/Model/Series aircraft to be used during EFVS operations.

EFVS Operator Application Guide Part 1: Basic Information

Date of Application: ____ / ____ / ____

Point of contact information

POC Name	E-mail Address	Telephone Number

Aircraft information (Complete one checklist for each M/M/S)

Make	Model	Series

EFVS Information

Sensor Manufacturer	Sensor Model
<input type="checkbox"/> Collins	<input type="checkbox"/> EVS-3000 <input type="checkbox"/> EVS-3600
<input type="checkbox"/> Universal Avionics	<input type="checkbox"/> EVS-5000 (FalconEye, ClearVision)
<input type="checkbox"/> Esterline CMC Electronics	<input type="checkbox"/> CMA-2600 <input type="checkbox"/> CMA-2700
<input type="checkbox"/> Kollsman	<input type="checkbox"/> EVS-I <input type="checkbox"/> EVS-II <input type="checkbox"/> EVS-III(SP)
<input type="checkbox"/> Other _____	<input type="checkbox"/> _____

Note: EFVS information may not be in the airplane flight manual, or the aircraft manufacturer may have branded the original sensor differently. The Operational Suitability Report, *EFVS Operational Credit for Enhance Flight Vision Systems (EFVS)* includes an appendix that may help identify Aircraft-EFVS combinations. The applicant may have to contact the aircraft manufacturer to properly identify the installed sensor if there is any uncertainty.

Which EFVS Operation(s) are you applying for? (Check all that apply)

- EFVS Operations to Touchdown and Rollout - § 91.176(a)
- EFVS Operation to 100 Feet Above the Touchdown Zone Elevation - § 91.176(b)

Are you interested in participating in a voluntary pilot feedback program?

Yes

The pilot feedback program is designed to facilitate issuance of authorizations and collect data on EFVS availability and sensor performance.

To use the web-based application to provide feedback, go to: <https://cbtopsaticami.faa.gov/efvs/>

For information on the program contact the following:

Daniela Kratchounova, Ph.D.
Federal Aviation Administration
Civil Aerospace Medical Institute
Email: Daniela.Kratchounova@faa.gov
Phone: (405) 954-6841

No

Additional information or comments may be attached

EFVS Operator Application Guide
Part 2: Operator Exhibits/Documents

Correspondence to the FAA		
Q1	Does the application include correspondence that clearly summarizes the aircraft, equipment, and operations for which the applicant is seeking authorization? The information in Part 1 of this checklist should be sufficient.	Y N
Q2	Does the correspondence describe the organization of the application in a manner that is intended to help facilitate compliance with this checklist?	Y N
Q3	Is the correspondence in a form acceptable to the FAA Office issuing the authorization? FAA Offices may have unique administrative requirements for document processing. Applicants should check with their local office to see what is acceptable.	Y N
Airworthiness Documentation for the EFVS		
Q4	Does the documentation identify the EFVS operations for which the EFVS is eligible? This is typically a specific statement in the Airplane Flight Manual (AFM) or AFM Supplement (AFMS).	Y N
Q5	Does the AFM or AFMS identify any operational limitations, and as applicable included in EFVS training?	Y N
Operating Manuals		
Q6	Does the application include sections of applicable operating manuals (Airplane Operations Manual (AOM), Flight Operations Manual (FOM), pilot's operating handbook (POH), and/or quick reference handbook (QRH)), that contain the operator's procedures or provisions for using an EFVS that are consistent with EFVS training curriculum?	Y N
Training Program / EFVS Curriculum		
Q7	Does the application include a proposed EFVS pilot training curriculum that meets the requirements of § 61.66 and incorporate the EFVS procedures or callouts unique to the operator?	Y N

	Note: A training program may utilize an FAA-approved EFVS curriculum provided by an authorized training center or a curriculum developed by the applicant.	
Q8	Does your training program maintain the training record endorsements for pilots that satisfactorily complete initial EFVS training?	Y N
Q9	Does pilot recurrent training include EFVS tasks? Note: Part 91K operators maintain EFVS recent flight experience through the satisfactory completion of EFVS tasks in the recurrent training syllabus.	Y N
EFVS Provisions in the Minimum Equipment List (MEL)		
Q10	If the applicant is seeking MEL relief for EFVS, does the proposed MEL contain appropriate operations and maintenance procedures that consider all applicable components of the EFVS for MEL submission, review, and approval?	Y N
EFVS Maintenance Procedures		
Q13	Does the applicant have a means to comply with the EFVS manufacturer’s Instructions for Continued Airworthiness (ICAs)?	Y N
Q14	If the applicant is responsible for the training of maintenance personnel, does the applicant provide an EFVS training curriculum for maintenance personnel as described in AC 90-106 (current edition)?	Y N
Draft Management Specification MC048		
Q15	If possible, the applicant should submit a properly completed draft MSpec MC048 template that correctly reflects the aircraft, EFVS, and EFVS operation. An applicant should coordinate with the responsible Flight Standards Safety Assurance office in order to create a draft authorization that is filled out accurately. All templates are found via WebOPSS at: https://webopss.faa.gov/ Is the authorization template filled out correctly to reflect the aircraft, EFVS, EFVS operation(s), and EFVS operational credit (if applicable) specified in the application? Refer to WebOPSS and FAA Order 8900.1, Volume 4, Chapter17, Section1 for guidance.	Y N
Demonstration Proposal		

Q16	<p>Does the program manager's application contain a formal proposal for demonstrating the ability to perform the proposed operation(s)?</p> <p>Note: The FAA's process for approval and acceptance includes observing and evaluating the program manager's ability to perform the proposed operation(s) in accordance with the procedures, guidelines, and parameters described in the operator's formal proposal. The means for meeting the operational demonstration objectives and an appropriate timeline are explained in AC 90-106 (current edition).</p>	Y N
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EFVS Operator Application Guide
Part 3: Operator Demonstration Planning

Demonstration Proposal		
Does the proposed demonstration include a means to demonstrate:		
Q1	Amendments to manuals, procedures, and checklists for EFVS operations have been appropriately incorporated and distributed to all applicable personnel?	Y N
Q2	EFVS maintenance practices are conducted in accordance with MEL, ICAs, and other manufacturer's guidance?	Y N
Q3	EFVS training for flightcrews, maintenance personnel, and persons authorized to exercise operational control provides the knowledge, skills, and competency to safely conduct EFVS operations?	Y N
Q4	The ability of flightcrews and persons authorized to exercise operational control of an aircraft (e.g., dispatch, release, etc.) to properly plan and dispatch/release a flight in accordance with the regulations, applicable operating credit, and conditions or limitations in the operator's authorization?	Y N
Q5	The ability of qualified flightcrews to conduct EFVS operations in accordance with the regulations, applicable operating credit, and conditions or limitations in the operator's authorization?	Y N