

SECTION II: DETAILED ACTION INFORMATION

Action 2: Implement means to maintain pilots' view in smoke conditions

Primary Implementer

Air Carriers, Aircraft Manufacturers

Action Objective

Air carriers should implement in existing type designs a means to maintain pilots' view of necessary flight information and, where possible, visual references outside the aircraft in dense continuous smoke conditions on the flightdeck, in new type designs. Air carriers and manufacturers of this equipment should also study the feasibility of implementing such systems in existing in-production and out-of-production aircraft designs.

Action Timeline

Flow Time: 36 months

Due Date: 12/31/2019

Timeline/Flow for Future Adopters

TBD when CAST closes this action.

CAST Lead

National Air Carrier Association (NACA)

#	Organization(s)	Detailed Steps
2a	Air Carrier Industry Assns.	Communicate with air carrier members and encourage them to implement, as feasible, systems that maintain the pilots' view of necessary flight information and, where possible, visual references outside the aircraft in dense continuous smoke conditions on the flightdeck.
2b	Air Carriers	Review available system options and implement in existing aircraft, as feasible.
2c	Aerospace Industries Association (AIA)	Communicate with CAST-represented manufacturers that are currently producing transport category aircraft for use in Title 14, Code of Federal Regulations (14 CFR) part 121 operations, encouraging them to study the feasibility of developing and implementing systems that maintain the pilots' view of necessary flight information and, where possible, visual references outside the aircraft in dense continuous smoke conditions on the flightdeck.
2d	Aircraft Manufacturers	In conjunction with appropriate suppliers, respond with intent to include such system in future type designs. Manufacturers should also conduct, for all existing type designs, a model-by-model feasibility study on the implementation of the recommended systems on current production, in-development, and out-of-production aircraft.
2e	Aircraft Manufacturers	Respond to AIA and JIMDAT with the results of their studies and any intended follow-on implementation plans.
2f	AIA, Air Carrier Industry Assns.	Track progress of feasibility studies and report results to JIMDAT and CAST.

Notes

Systems have been developed by third-party suppliers that will maintain pilots' view of necessary flight information and, where possible, visual references outside the aircraft in dense continuous smoke conditions on the flightdeck. **One example is the Emergency Vision Assurance System (EVAS).** Other systems include critical instrument vision systems or heads-up display information projected within smoke goggles.

