Improving birdstrik resistance of aircraft windshields

(R. J. Speelman and R.C. McCarty, USA)

IMPPOVING BIRDSTRIKE RESISTANCE OF ATFCRAFT WINDSHIELDS

R. J. Speelman

Aircrew Protection Branch
Flight Dynamics Laboratory
AF Wright Aeronautical Laboratories
Wright-Patterson AFR, OH 45433

R. C. McCarty

Aircraw Protection Branch
Flight Dynamics Laboratory
AP Wright Aeronautical Laboratories
Wright-Patterson AFP, OH 45433

ABSTRACT

USAF eircraft repeatedly prove that birds and aircraft cannot occupy the same airspace at the same time; over 3000 birdstrikes per year cause millions of dollars in damage to USAF aircraft. During the past 18 years 13 eircraw members have been killed and 21 sircraft have been destroyed due to bird impact. More of these losses are due to birdstrikes on the windshield subsystem than to any other subsystem. Windshield systems on several different sircraft are being redesigned to provide improved tolerance of the birdstrike event. These efforts to improve windshield system birdstrike resistance will be discussed in general terms as will the rationale behind these efforts. Some technical words in designing for, and integration of, birdstrike resistance will be discussed.

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