Birdstrike F-16 RNLAF Mazer-e-Sharif 23 Oct 2012, 16h30 local



Sources:

RNLAF Air Task Force (ATF21)
Deutsche Bundeswehr
RNLAF airbase Volkel – Technical department
MoD NLD – Maintenance Centre Woensdrecht

Albert de Hoon, RNLAF birds@mindef.nl

J-866 in take-off, 50 ft AGL, 269 kts

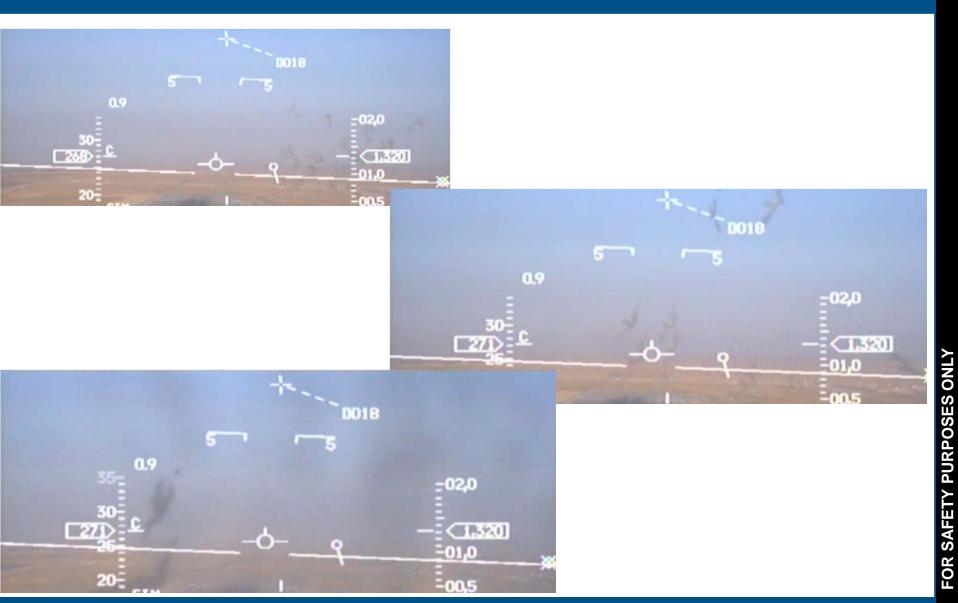


flock of small birds in flight path





HUD-view



Engine hesitated momentarily, bail out avoided, returned to MeS





number of birds





10 blood spots on nose / canopy



NATO Flight Safety



estimated nr. of 20 birds ingested into air intake





All 40 birds on the runway were House sparrows. 1 House sparrow ≈ 30 gram ≈ 1 ounce



NATO Flight Safety



PW F-220E engine



20 House sparrows in air intake * 1 ounce = 20 ounces

Bird strike specification PW F-220E engine:

The engine shall be designed to ingest 16 birds, each weighing 2 to 4 ounces, simultaneously with the engine running at maximum power, without blockage or catastrophic failure although some damage to engine parts may occur.

"damage may occur...":

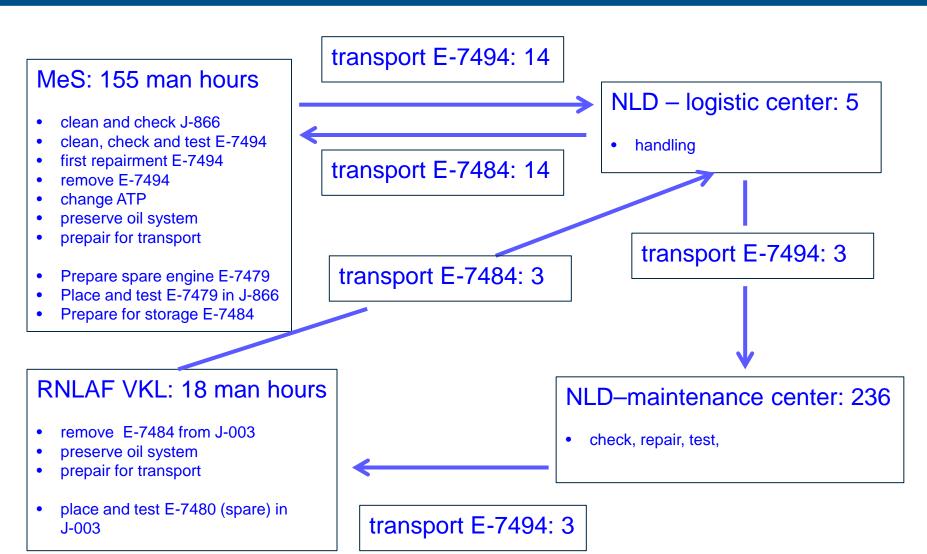


NATO Flight Safety



Costs: man hours: 451





MeS: €5,462

- 7th stage regulator valve
- preservation oil
- motor oil

transport E-7494: €80,000

- AOG priority
- initially planned cargo postponed and later transported with chartered AN-12

transport E-7484: ?

- AOG priority
- initially planned cargo moved to next scheduled cargo flight

NLD – logistic center: ?

handling

transport E-7494: € 1,343

transport E-7484: € 1,293

RNLAF VKL: €563

- preservation oil
- motor oil

transport E-7494: €1,368

NLD – maintenance centre:

€ 42,434.30 + 3.5 m³ test fuel

22 fan blades, 2 igniters, 2 air coolers, 5 FTIT probes, 2 adapters, packing, etc.

PURPOSES ONLY

Downtime



J-003: 1 day

E-7484: 7 days

J-866: 14 days

E-7494: 84 days