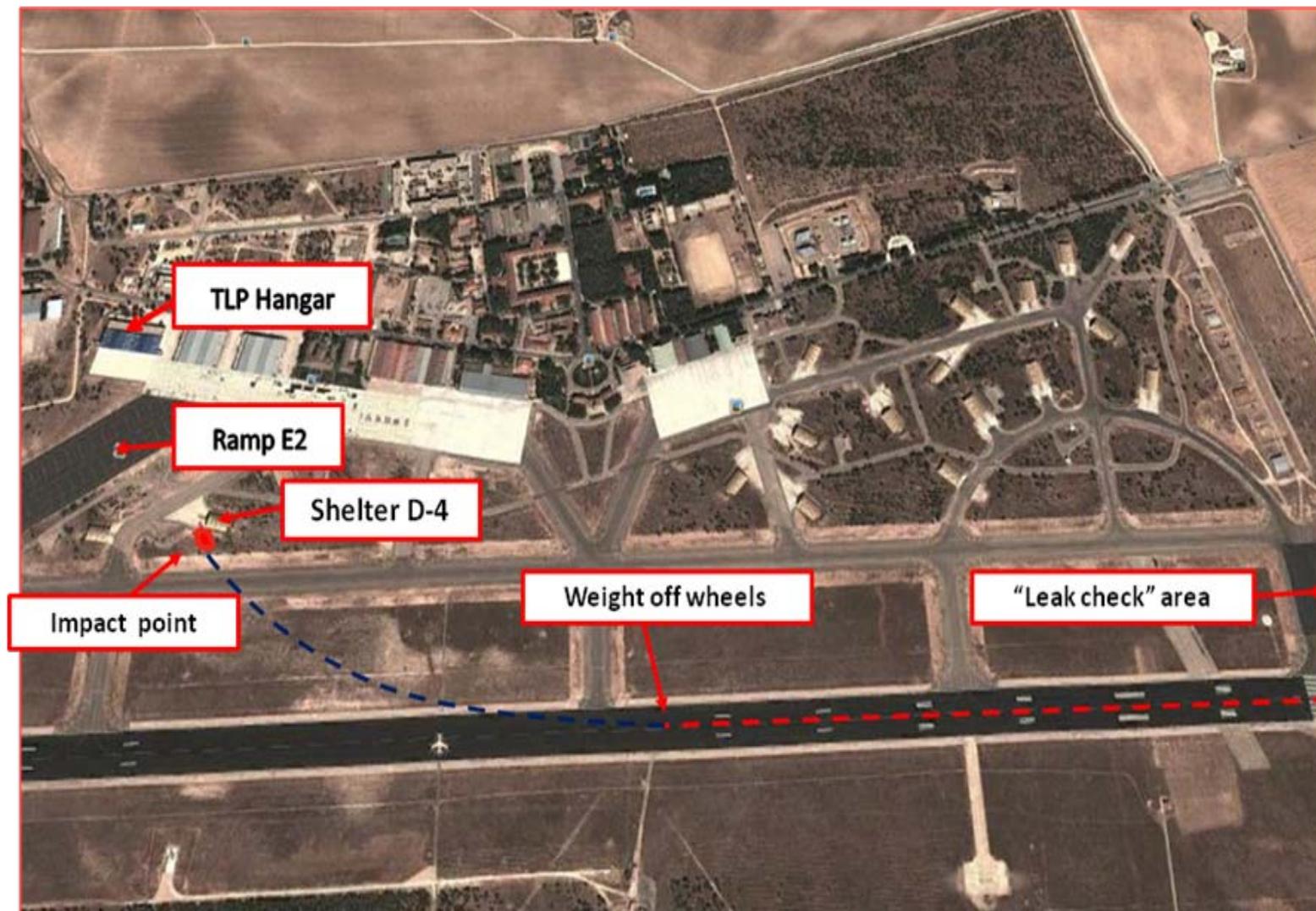
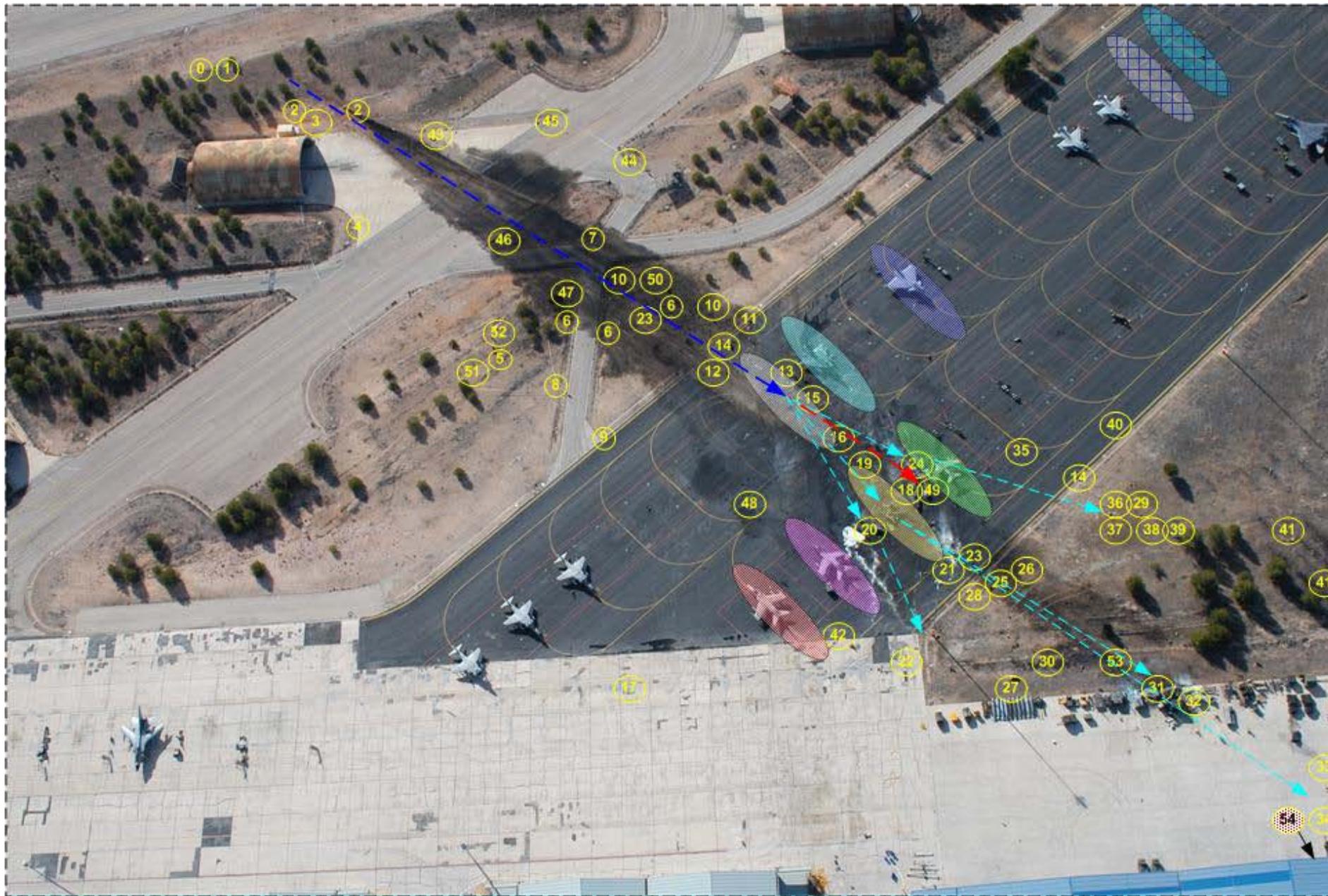


Appendix B

CRASH SITE AND DAMAGES



Picture B-1.: View of the Albacete AFB with the main runway, facilities and the MA trajectory (approximate). With red line is the MA trajectory before it becomes airborne and with blue afterwards



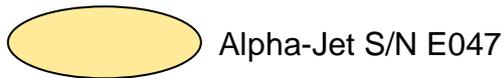
Picture B-2: Aerial view of the wreckage area (for Index please look at the next pages)

INDEX

- 0: Impact point of MA
- 1: Canopy
- 2: RH leading edge flap rotary actuators (LEFRA) & part of RH LEF
- 3: Recovery parachute (AFT)
- 4: Pitot tube
- 5: FWD Pilot
- 6: Side stick controllers (AFT and FWD)
- 7: RH wing weapon pylon
- 8: Fan Turbine Inlet Temperature (FTIT) indicator
- 9: Taxing light
- 10: Rudder pedals
- 11: RH wing tank
- 12: Data Transfer Cartridge (DTC)
- 13: ACMI pod
- 14: Rudder
- 15: Radome
- 16: LAU-129 (Station 9)
- 17: Part of RH stabilizer and upper surface
- 18: Arresting hook
- 19: Vertical stabilizer
- 20: Engine
- 21: Crash survival memory unit (CSMU)
- 22: Accessory drive gearbox
- 23: Throttle quadrant
- 24: LH horizontal stabilizer
- 25: RH MLG door
- 26: LH LEFRA
- 27: LH speed brake
- 28: LAU-129 & AIM-9 (ST.1)
- 29: AIM-9 guidance section
- 30: M61A1 gun
- 31: LH wing
- 32: Main landing gear (MLG)
- 33: RH wing
- 34: Centerline (C/L) tank
- 35: RH circuit breaker
- 36: RH flaperon
- 37: Electrical power receptacle
- 38: RH stabilizer
- 39: Aircraft Launcher Interface Computer (ALIC)
- 40: Nose landing gear (NLG)
- 41: AGM-88 (HARM)
- 42: AFT frame with MFD panels
- 43: AFT Pilot
- 44: AFT ejection seat parts
- 45: RH asymmetry brake assy
- 46: Mount of RH LEF with LEFRA
- 47: Trim panel
- 48: RH angle gearbox
- 49: Jet fuel starter (JFS) accumulator
- 50: ACMI memory card

B-4

- 51: Lower part of FWD ejection seat
- 52: RH wing tip
- 53: Hydrazine tank
- 54: F-15 S/N 202 (USA) parked inside TLP hangar





Pictures B-3: View of massive fireball created by the accident (size of the fireball can be compared to the size of the shelter in front of it)

1. Impact point



Picture B-4: Aerial view of the crash site as viewed from the runway



Picture B-5: Close view of the impact point

B-6



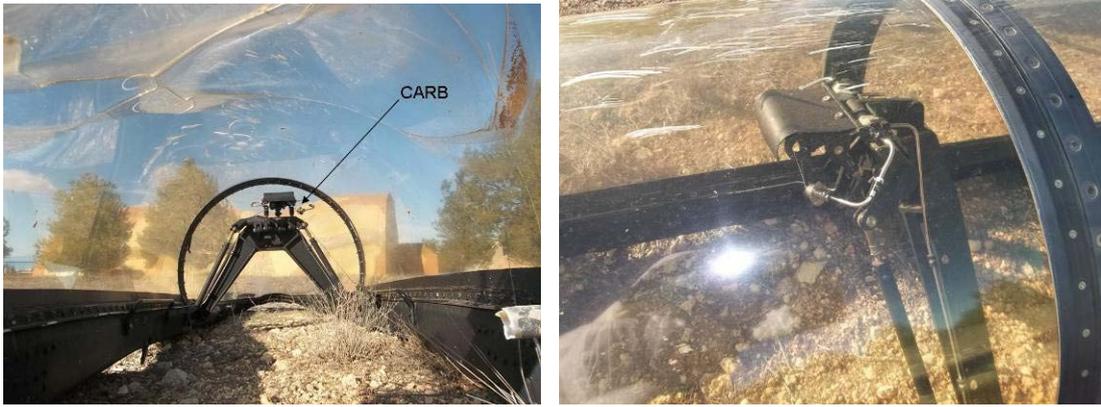
Pictures B-6: Views of the initial impact point

2. Canopy

The first part of the A/C found was the canopy (approximately 20m close to the shelter D-4). It was found in good condition whereas canopy remover rocket motors and their detonation transfer assemblies were activated.



Pictures B- 7: Front and rear view of the canopy



Pictures B-8: Canopy Release Bolt (CARB) properly operated



Pictures B-9: Canopy Remover Assemblies properly operated

3. AFT Seat Pilot (AFP) – AFT Ejection Seat

The body remaining of AFP was found next, approximately 30m from shelter D-4, while the main part from aft ejection seat was found 15m from that point. All ejection seat's firing devices that should have been activated was properly operated.

4. FWD pilot (Pilot in Command – PIC)

PIC was found with his personnel chute deployed 60m from shelter D-4 and approximately 10m from the longitudinal axis of A/C crash pattern. The main part of FWD ejection seat was found in the same point.

5. Rudder

Part of the rudder was found burnt and destroyed just before E2 Parking Rump. However several pieces of it were found at different locations.



Pictures B-10: Parts of the rudder

6. Radome

MA's radome was found totally burnt and destroyed at E-2 Parking Rump, next to FRA Mirage 2000-5 S/N 669.



Picture B-11: The radome totally destroyed

7. Vertical Stabilizer

Vertical Stabilizer was found fully burnt and destroyed close to ITA AMX S/N 7193.



Picture B-12: Parts of vertical stabilizer

8. Engine

MA's engine was found with serious damages without exhaust nozzles and augmentser close to ITA AMX S/N 7193. In that location, there were debris of the totally destroyed FRA Alpha-Jet S/N E047 and Mirage 2000-5 S/N 651 too.



Picture B-13: Engine general view



Pictures B-14: Engine forward and rear view



Pictures B-15: Engine forward and rear close view

9. Nose Landing Gear (NLG)

It was found 30 m from the engine but in the same level, perpendicular to the longitudinal axis of A/C crash pattern.



Pictures B-16: NLG assembly

10. LH Wing

LH Wing was found seriously damaged and burnt, in the area in front of TLP hangar.



Pictures B-17: The LH wing (rear view) and close view of LH Leading Edge Flap

11. Main Landing Gear (MLG)

MLG system was found close to LH Wing.



Picture B-18: MLG and drifted ground equipment

12. RH Wing

RH Wing joint with part of upper surface were found burnt and damaged in front of the TLP hangar.



Pictures B-19: RH wing totally burnt

13. C/L Tank

C/L Tank joint with C/L pylon were found totally destroyed and burnt at the very end of maintenance area close to the corner of TLP hangar.



Picture B-20: C/L tank and ground equipment

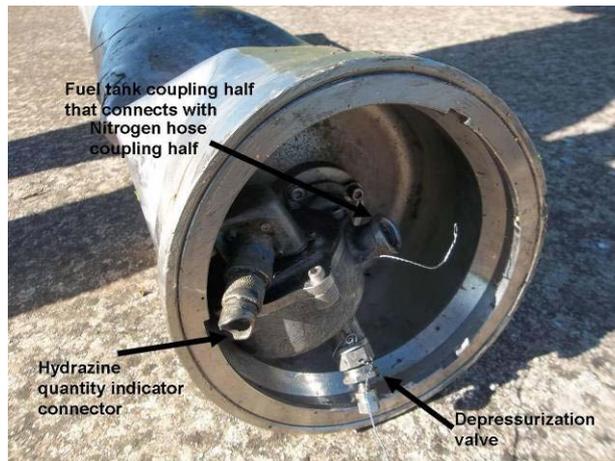
14. Hydrazine Tank



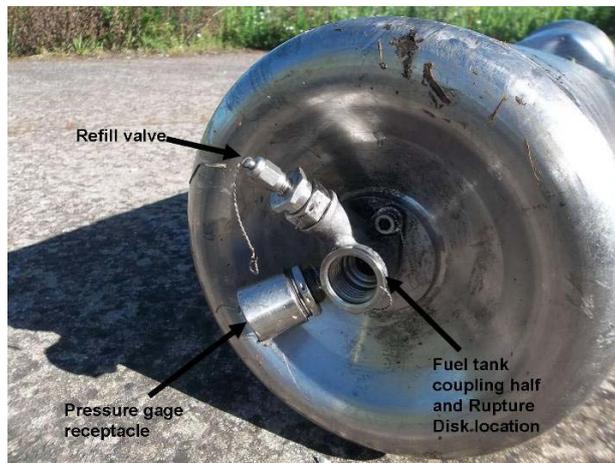
Pictures B-21: View of hydrazine tank's distortion (All Hydrazine tank pictures have been taken in Greece and not at crash site)



Pictures B-22: Close view of the fracture of the case of hydrazine tank. Hydrazine had been leaked from that point.



Picture B-23: Damages on FWD section of hydrazine tank.



Picture B-24: Damages at AFT section of hydrazine tank. Rupture disk was found broken, however it was activated due to ground impact and not as a result of Emergency Power Unit (EPU) activation



Pictures B-25: Hydrazine contaminated soil collected in special spill kit and hydrazine tank was stored in adequate salvage drum. Due to hydrazine tank's deformation it could not be installed in its appropriate container.

15. Mirage 2000D S/N 651

Mirage 2000D S/N 651 absorbed MA's momentum after the crash. It was drifted towards the Alpha-Jets and totally destroyed.



Pictures 26: Mirage 2000D S/N 651

16. Mirage 2000D S/N 669

Mirage 2000D S/N 669 was located next to Mirage 2000D S/N 651 which substantially absorbed MA's momentum after the crash. In consequence, Mirage 2000D S/N 669 was seriously damaged.



Pictures 27: Mirage S/N 669

17. Alpha-Jet S/N E096

Mirage 2000D S/N 651, drifted by MA and impacted on Alpha-Jets. Alpha-Jet S/N E096 substantially damaged.



Pictures 28: Alpha-Jet S/N E096

18. Alpha-Jet S/N E047

Alpha-Jet S/N E047 was totally destroyed.



Pictures 29: Alpha-Jet S/N E096

19. AMX S/N 7193

It was located next to Alpha-Jet S/N E047 and got totally unserviceable by the fire.



Pictures 30: AMX S/N 7193

20. AMX S/N 7192

It was located next to AMX S/N 7193 and got slightly damaged.



Pictures 31: AMX S/N 7192

21. Rafale S/N B335

Rafale S/N B335 was parked next to Mirage 2000D S/N 669 and was slightly damaged due to fragmentation after MA's crash.



Picture 32: Rafale S/N B335

22. F-15 S/N 202

The A/C was located inside TLP Hangar and was slightly damaged.



Pictures 33: F-15 S/N 202

23. Maintenance Ground Equipment

Significant damages were caused to the ground equipment that was located in front of TLP hangar mainly by MLG, RH wing and LH wing of the MA.



Pictures 34: Damages caused by MA's pieces on ground equipment

24. Damages to Infrastructure

Significant damages were caused to Albacete and TLP infrastructure in front of TLP hangar, E2 apron parking area and the nearby land.



Pictures 35: Damages to Albacete AFB and TLP infrastructure