

Attachment AD
Flame Test Results

DME Corporation
Qualification Test Data Sheet
Flame Test

1.0 PURPOSE

This test was performed to verify that the ELT would continue to function/operate after exposure to flames as specified within RTCA DO-204, dated September 29, 1989, paragraph 2.3.7.1.

2.0 TEST RESULTS

Model SRB-406 Beacon SN 2007, with antenna SN 026 and 029, battery pack SN 020149 and RF CCA SN 002 and Digital CCA SN 016. The beacon transmitter was placed in a pouch used to hold the beacon on the inflatable. One of the antenna bases was placed in a pouch used to hold the antenna on the inflatable.

- The beacon was stabilized at ambient air temperature prior to the test.
- The fire source was a tray conforming to the dimensions shown in paragraph 2.3.7.1a, with a water depth of 2 1/8 inches and using a minimum of 2.6 gallons of Avgas, with the beacon located 39 1/8 inches above the tray floor.
- The Avgas was ignited and allowed to burn for 15 ± 2 seconds before the beacon was placed in a central location over the tray.
- The beacon remained over the tray for a minimum of 15 seconds before it was removed and the fire extinguished.
- After the beacon was removed from the flames, it was allowed to cool. The mechanical/operational functions were checked and were found to be acceptable. The aliveness test was deferred until completion of the post crash immersion test.

Test photos are attached.

Test Engineer /date

Suey. Hi 12/3/02

QA Witness/date

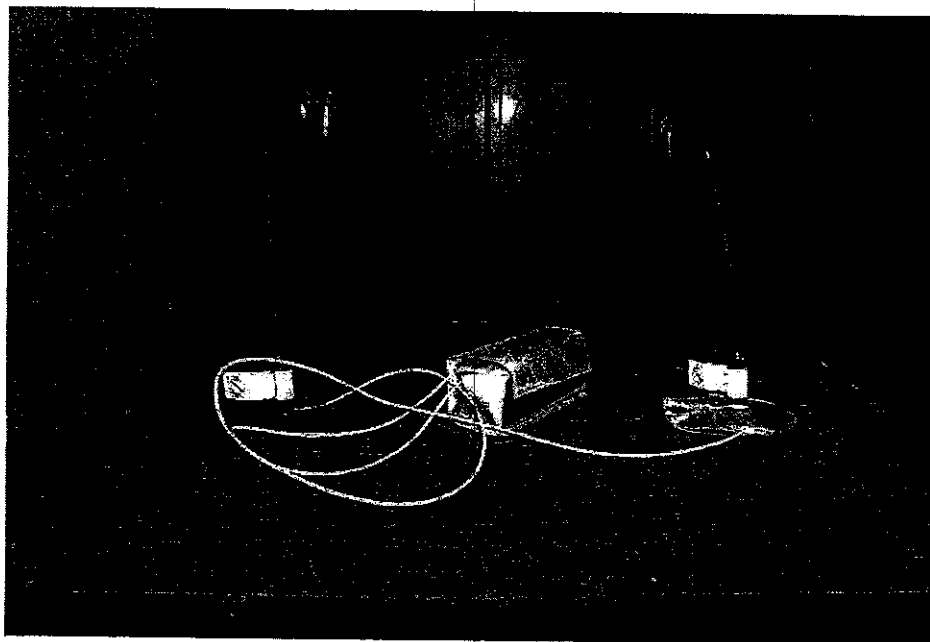
A. Haynes 12/3/02

FAA DER Witness/date

[Signature] 12/3/02

Test Photos

Beacon SN 2007 Test Configuration

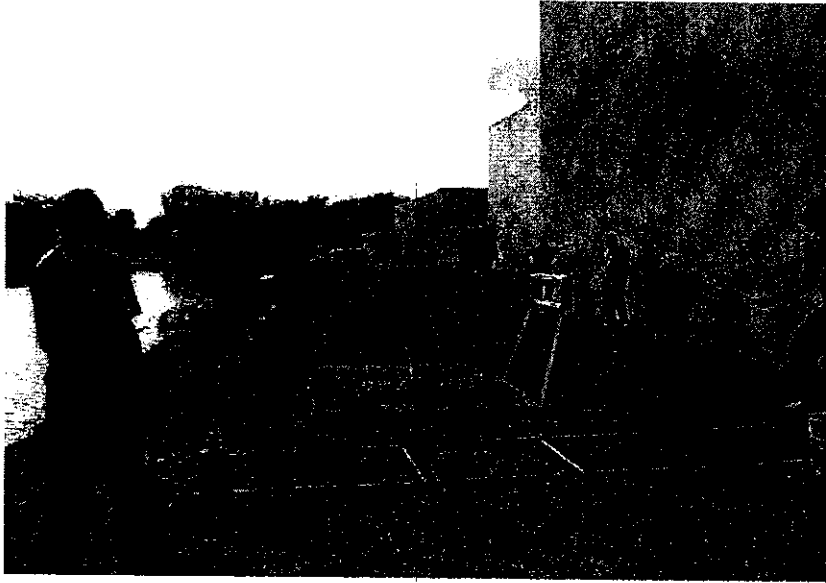


Height Measurement

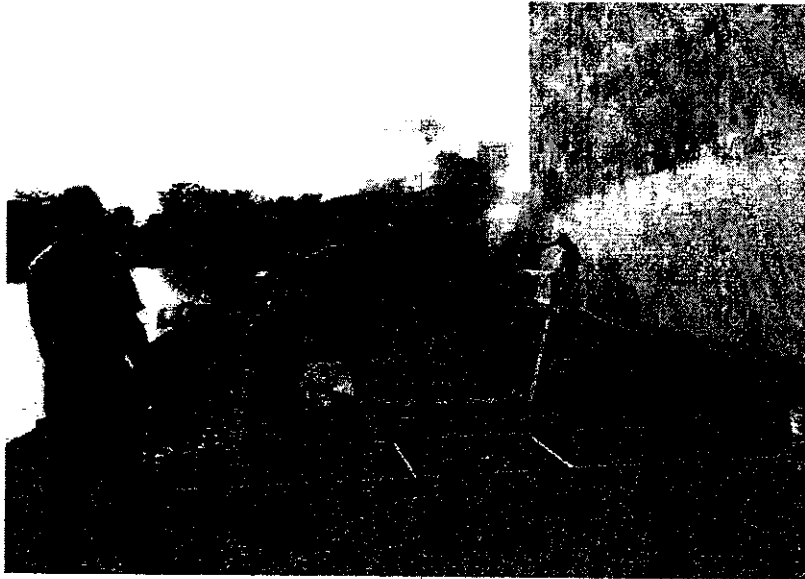


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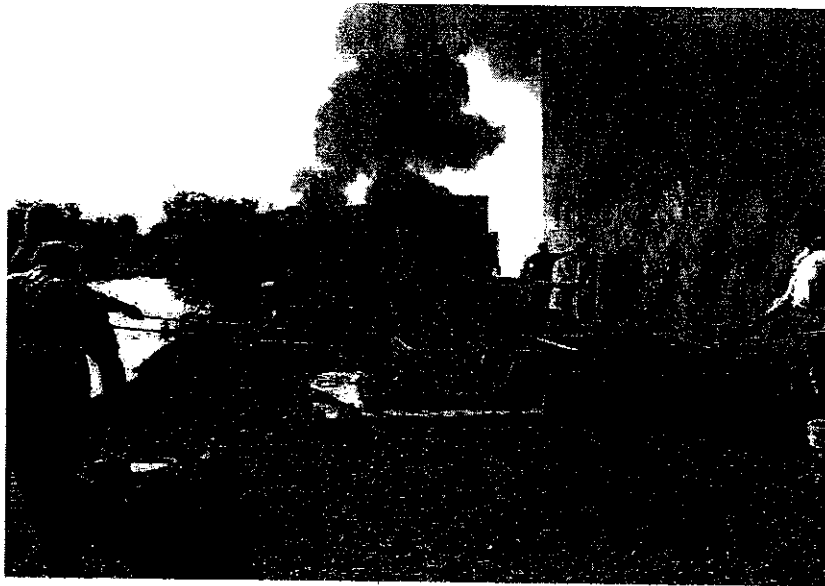
○ Fuel Ignition



○ Fire Evolution



Fire Evolution, con't



Start of Test



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End of Test



Extinguishing the Fire



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