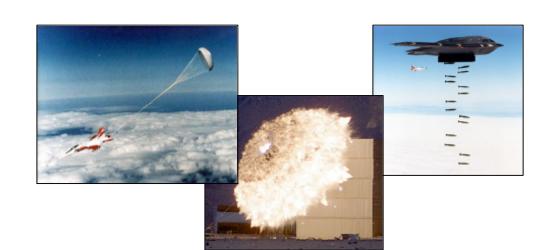


# BRIEF TO THE: NATIONAL DEFENSE INDUSTRIAL ASSOCIATION ON SYSTEM ENGINEERING & TEST AND EVALUATION

Stephen F. Mendonca 26 February 2003

- Event Could be: Test, Training or Experimentation
- Event Manager Utilizes System Engineering Principles
  - Convert requirements to solutions
  - Trade-offs between possible solutions based on
    - Data accuracies
    - Cost
    - Risk
    - Timeliness



### Event Requirements

Utilize requirements to develop options

Translate Event Requirements into an Integrated, Controlled and

Safe Event

#### Consider:

- Accuracies
- Cost
- Risk
- Timeliness

#### Required Infrastructure

- Trade-offs between Ground Based Radars and GPS
- Trade-offs between Ground Based Voice COMMs and Airborne



#### Instrumentation Trade-Offs

- Ground based versus on-board
- Remote destruct ground based versus airborne

### Event Participants

- Live and simulated trade-offs
- Hardware-in-the-loop versus digital models



### During Event

- Delay versus cancellation versus reschedule
- Instrumentation problems
- Range safety
- Fouled event area

