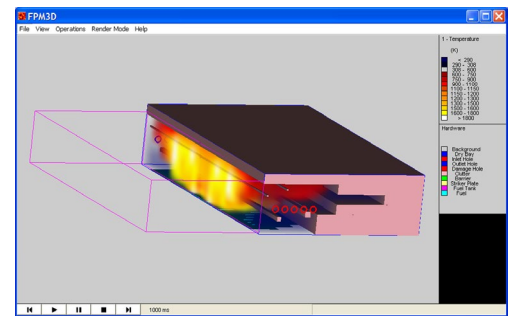
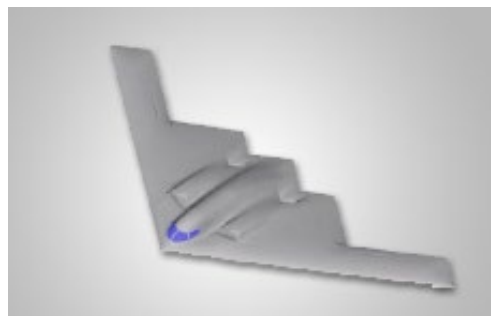




SURVICE

ENGINEERING COMPANY

FIXED-WING SURVIVABILITY



BACKGROUND

SURVICE Fire Works (SFW) is a dedicated team within the SURVICE Engineering Company that is equipped with the tools and expertise to better understand, assess, test, and mitigate the fire threat to military and commercial platforms and facilities. We provide service and support in three primary areas: studies and analysis (S&A); research, development, test, and evaluation (RDT&E); and modeling and simulation (M&S) development.

VULNERABILITY ASSESSMENTS

Providing analysis and design support capabilities through the application of traditional fire predictive techniques and advanced computer models, such as the Fire Prediction Model (FPM).

LIVE FIRE TEST AND EVALUATION

Providing comprehensive fire test and evaluation services through researching, planning, monitoring, evaluating, and reporting to ensure the test goals are defined and met.

FIRE EVALUATION & MITIGATION

Developing, enhancing, and validating fire engineering methodologies, architectures, algorithms, and visualization tools to better assess fire and visualize the effects.

FOREIGN TARGET EXPLOITATION

SURVICE Fire Works provides a unique capability and impartiality when designing, assessing, testing, and then recommending technologies and procedures to mitigate the fire threat. This impartiality offers several advantages, and it enables the SURVICE Fire Works team to serve in many different roles, including:

- Performing design and trade studies
- Evaluating system and mitigation products
- Preparing state-of-the-art summaries
- Scoping test efforts for feasibility and goals
- Developing test and instrumentation plans
- Supporting the construction of test articles
- Investigating smoke toxicity effects
- Defining and documenting M&S requirements

- Developing methodology, algorithms, and code
- Creating data pre- and post-processors
- Developing visualization tools to study results
- Conducting independent software VV&A
- Documenting and reporting
- Serving as the customer advocate

SUPPORTED PLATFORMS

Some of the recent fixed-wing platforms that SURVICE has supported include:

- JSF
- C-5
- F-22
- B-2
- F-14
- F-18
- AV-8B
- A-6
- P-3
- UCAR
- Predator
- various foreign targets