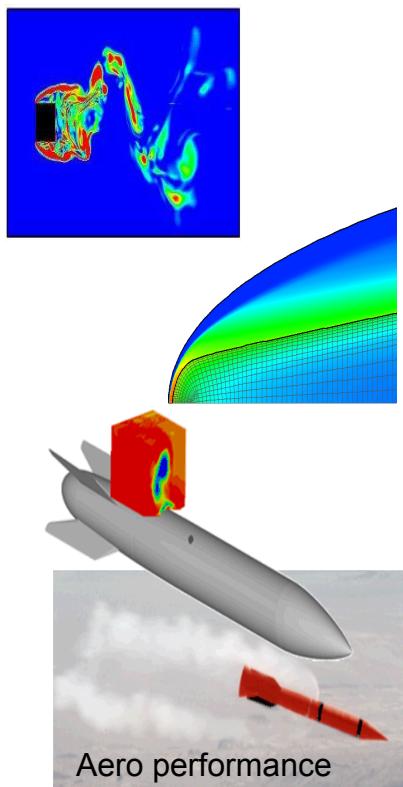


# Integrated Environmental Tests and Computational Simulation

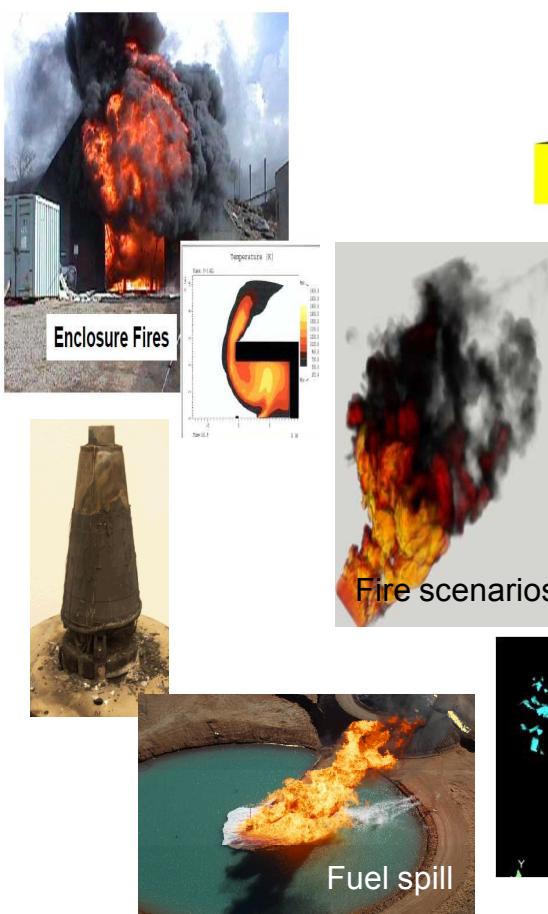
SAND2016-2026PE

Our mission is to provide validated, science-based engineering expertise and solutions across the life cycle of products (design, manufacturing, qualification, life assessments and resolution of in-service problems) to inform engineering decisions. This requires an Integrated theory, computational simulation and experimental/test capability across length and time scales. Examples of capability impact, include:

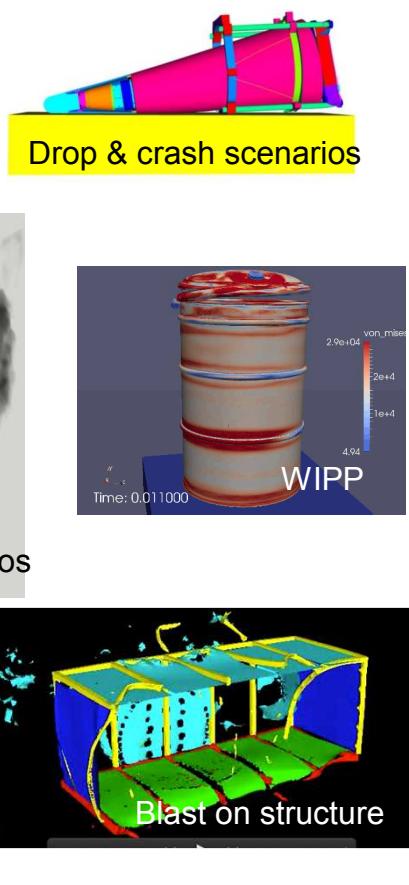
## Aerosciences



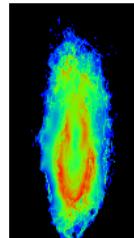
## Thermal Events



## Mechanical and Blast Events



## Wind Tunnels

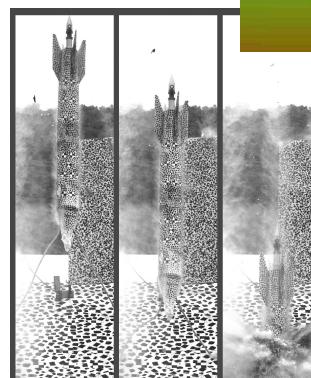
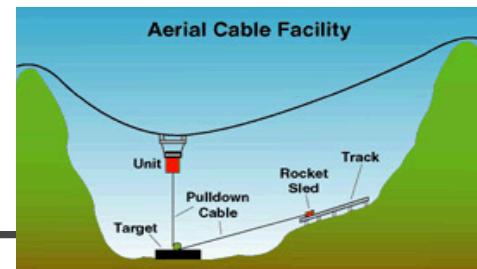


## Noninvasive laser-based thermal/flow diagnostics

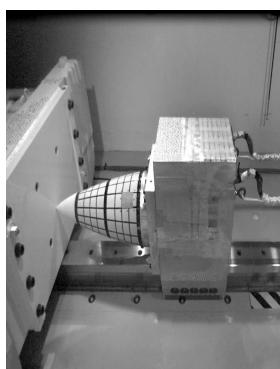
## Modal, vibration, and mechanical shock & centrifuge facilities



## Sled Track, Blast Tube and Aerial Cable facilities



## Thermal Test Complex



# Major Environmental Test

