



APPLIED SCIENCE INTERNATIONAL SUCCESS STORY

STUBBS TOWER DEMOLITION

Savannah, GA, 2007

Assuring City Managers, Engineers, and Neighbors Using Engineered Analysis

The dramatic and successful implosion of the 15-story Stubbs Tower occurred early in the morning on Saturday, December 15th, 2007. A ground-breaking event on many fronts, the defunct apartment complex was the second tallest building in Savannah, Georgia and the first to be explosively demolished. More importantly, however, is what happened leading up to demolition.



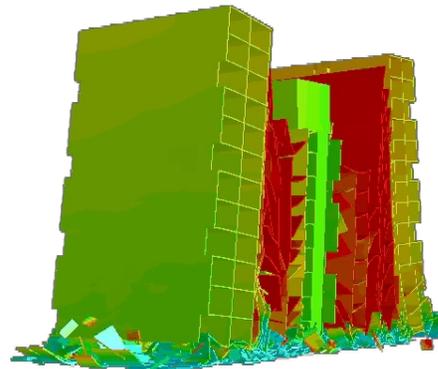
The demolition analysis video was released two days prior to the actual event, shown on the local news, and hosted on numerous media websites. The release of the demolition analysis pre-occurrence demonstrated both the confidence in Extreme Loading's predictive capabilities and the positive attention that can be generated in the public sphere.

The video also served to allay the justified concern of neighbors and approving regulatory boards. "It went off exactly as we were told it would happen, and as the computer model simulation showed it would," exclaimed Earline W. Davis, the Executive Director of Savannah's Housing Authority.

This event demonstrated the positive advances that can be achieved through cooperation between the companies like Applied Science International, their team of engineers and software developers, the academic community, and demolition contractors. The analysis of all of the research data compiled as a result of the simulation and demolition is currently being used by ASI engineers to further enhance the capabilities of the Extreme Loading technology.

The modeling, prediction, and analysis of the Stubbs Tower were part of an ongoing project being undertaken by Dr. Emmett Sumner of NC State University in cooperation with Applied Science International (ASI) in the use of Extreme Loading for Structures (ELS) for the study of progressive collapse. While ASI has modeled numerous demolition projects, the analysis results are usually withheld from the general public until after the actual demolition. For various reasons, this was not going to be the case in Savannah.

The Stubbs Tower demolition analysis created using ELS helped D.H. Griffin, the general demolition contractor, and Demolition Dynamics, the explosives demolition expert, win the final approval from the city to perform the explosives demolition.



Stress contours generated in Extreme Loading for Structures (ELS).

ASI Headquarters:

2012 T.W. Alexander Drive, Durham, NC 27709-3887
Tel: +1.919.645.4090 | Fax: +1.919.645.4085

3D Engineered Analysis using Extreme Loading for Structures.

