NOVICE Software Suite
INNOVATIONS – May 2017

**Instantly Change CAD File Object Parameters
Within Graphical User Interface**

A new capability enabling faster, more flexible 3D design and analysis:

- ✔ Automated process changes the material for any object or group of objects

- ✔ Objects can be identified and selected using twenty-three searchable categories[1], especially useful for large CAD files[2]

- ✔ A single object or multiple objects can be selected, previewed, and changed simultaneously

- ✔ A complete materials library enables changing any component's specification to any new material, instantly within the proprietary NOVICE GUI[3]

This GUI automated materials process is a proprietary innovation by EMPC, available only with the NOVICE Software Suite.

1. Categories include object number, object name, volume, area, diagonal, x/y/z coordinates, etc.
2. NOVICE processes +256 large CAD files and +250,000 objects with no loss in speed or accuracy.
3. The proprietary NOVICE advanced OpenGL GUI creates fully manipulable 3D models of even the most complex and numerous systems and objects. It isolates any object by virtually any descriptor (material, size, weight, location, etc.) with one click, then zooms and manipulates the object for viewing and analysis. It offers multiple views, including cross-sections, blueprints and blend operations. It enables seamless, single run NOVICE analysis of multiple thresholds of multiple variables (material, thickness, radiation, system configuration, etc.). It automatically converts CAD files into geometry, performs fast and complete analysis of radiation effects and exports the graphic files.