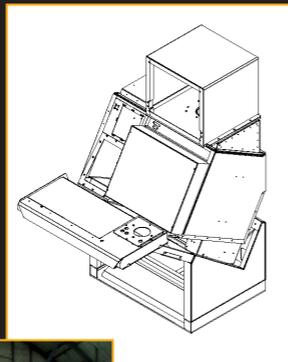
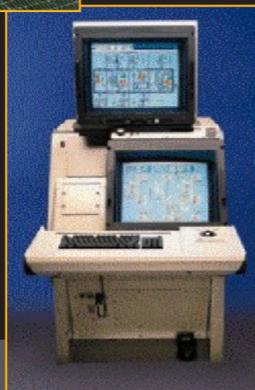


# Systems Support Engineering Division

## "Quality to the Fleet"



Design  
↓  
Test  
↓  
Produce



### Electronic Packaging

#### Capabilities

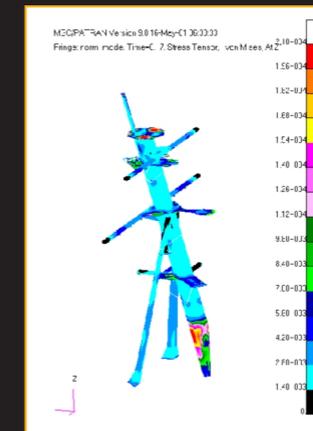
- Mechanical engineering and analysis
  - Mechanical engineering and design
  - Electronic packaging, integration of COTS equipment into the naval environment
  - Structural and thermal design and analysis
  - Shock and vibration isolation
  - Ocean vehicles and support equipment
- Engineering documentation
  - Engineering documentation creation and revision
  - Computer-aided design/drafting and documentation support
- SSC San Diego Engineering Data Management Center
  - Issue and track SSC San Diego and NAVSEA drawing numbers
  - Establish policy for creation and control of engineering drawings and documents
  - Maintain SSC San Diego Engineering Drawing Library

#### Concept to Reality

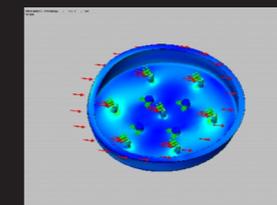
We provide mechanical engineering development and Computer-Aided Design (CAD) capabilities to support projects from concept through production. In-house CAD tools support product design, visualization, and analysis.

#### Modeling and Analysis

Computer models allow for better visualization of design features. An example antenna housing is shown, upper right. Solid modeling capabilities can be used to determine (much earlier in the design process) such physical properties as mass and center of gravity. Finite element analysis tools provide the capability to optimize designs for specific requirements like weight.



Complex Structural Analysis



Modeling and Analysis

design build test repair upgrade modify restore design build test  
field change • logistics • manufacture • quality assurance • database • esm • hf • uhf • shf • radiac • crypto • calibration • ship-to-shop repair