

## Kickoff of The Wall Process™ at FCS

On January 8, 2008, GDLS kicked off The Wall Process™ at Future Combat Systems (FCS). “The Wall” is centered at the 14 Mile Road, Sterling Heights Facility in the former training room. Dave Grieco, an Associate from Munro & Associates, Inc. is tasked with leading the process and facilitating FCS team participation.

### What is The Wall Process™?

The Wall Process™ is a visual map of the vehicle build, by installation, that identifies Integrated Process Team (IPT) compliance to select program measures including Requirements, Sub-System Design, Systems Engineering Maturity, Procurement, In-House Make, Prototype Build, Manufacturability and Vehicle Delivery as well as gaps to target on release schedule, weight, cost, and reliability. The process features regular reviews with FCS IPT members and support functions on their related component installations. The Wall enables all project stakeholders to see the big picture, in one place, by measuring the effect of individual work packages or installations on a product's design and manufacturing system right up to the customer. Once a common understanding is achieved, the team can take focused action on making improvements and developing solutions.



### Why do it?

The Wall Process™ is a proven and effective tool that GD leadership wants the FCS team to institute to enhance concurrent engineering and focus on program goals. As the FCS vehicle design evolves, the Wall will help identify key issues and opportunities for improvement. Design Profit® Workshops and other product simplification tools will be brought forward to attack areas of product complexity. In fact, workshops have already been held on the Power Pack TRA Mounts, Insulation and Flex Power Bus.

### A Section of The Wall

### The Bottom Line Value of the Wall Process:

- Focuses the Team on Winning – Priorities Defined On the Scorecard
- Supports Concurrent Engineering - Cross Functional Team Involvement – Provides a Regular Opportunity For All to Contribute
- Focuses IPTs on Getting Results NOW - Measures; Schedule, Weight, Cost, and Reliability
- Supports Making Good Decisions - Engineering Can See the Result of Their Work / Decisions Before Direction Is Set or Vendors Chosen
- Improves Productivity and Eliminates Waste in Non-Recurring Expense and Recurring Costs Areas - \$100M saved at Chrysler
- Supports People By Identifying Where Resources and Help Are Needed
- The Wall is consistent with “Best Practices” and Six Sigma
- Munro Supplies Unbiased Facilitation, Knowledge and Experience From Other Industries, Products and Other Walls to Support FCS


## Design Profit® - Summing it up

Another concurrent engineering tool Munro is spearheading at FCS is Design Profit®. The goal of Design Profit® is to improve product quality and profitability through a structured and rigorous methodology that provides objective metrics to enable effective decision making. Design Profit® combines the power of Munro's Lean Design® and Quality Report Card® software tools to produce cost, quality, manufacturing and assembly metrics based on globally accepted "Good Design Principles." These metrics highlight potential areas of opportunity for redesign that impact and reduce the total cost of the product.

A design team should use these workshops to reduce weight, complexity, cost, improve product quality, and reliability. Design Profit® tools give teams the ability to measure and compare the production complexity, cost, and quality of design in any phase of a design's evolution. Improvements can be quickly analyzed and developed into iterative redesign concepts to help teams make effective tradeoffs with a "total cost" perspective. Workshops are formatted to allow teams to identify, analyze, compare and select innovative solutions to meet the scope and objectives of the session.


Design Profit® provides six sigma black belts and green belts additional tools for Design for Six Sigma (DFSS) and other six sigma projects. The toolset makes it easier to measure and predict total defects per unit, percent right first time, Process Capability (Cp) and Cpk, and the cost of quality borne by each unit of product.

Design Profit® and the Wall Process™ work together. The Wall Process™ helps design teams identify issues. Design Profit® helps design teams identify solutions.



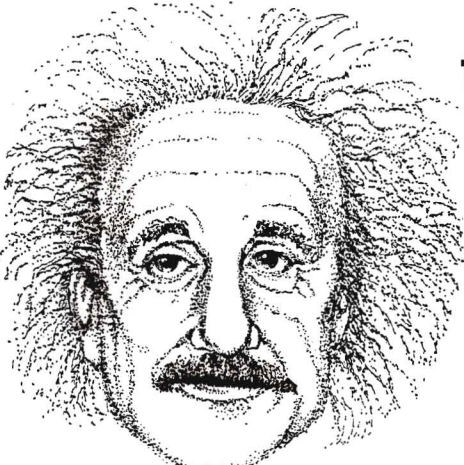
Munro & Associates, Inc.

# The Best Design ?




MANNED GROUND VEHICLES  
**MGV**

**"... the simplest one that works."**  
**-Albert Einstein**



**"The first design is never the simplest." – Munro & Associates**



57

Munro & Associates, Inc. of Troy Michigan specializes in improving client's product quality, value and profit by removing waste from product design and manufacturing processes. If you have any questions regarding the Wall, please contact Dave Grieco at 586-276-1290 or [griecod@gdls.com](mailto:griecod@gdls.com). For Design Profit® please contact Dave Oberholtzer at 248-736-9844, [oberholt@gdls.com](mailto:oberholt@gdls.com).