

MGA Research Corporation Virginia & DC Facility



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MGA Research Corporation
Virginia Initiative

Overview

MGA's History of Expansion

The Virginia Facility

MGA's Virginia Initiatives

NHTSA's Role in MGA Virginia

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MGA's History of Expansion

Advancing worldwide passenger safety and transportation quality

- Engineering services company founded in 1977 by three engineers (Miller, Greene, Arendt)
- Independent, privately owned and operated organization
- Serving the global industries including
 - Ground Vehicle Transportation
 - Aerospace
 - Rail
 - Shipping
 - Defense

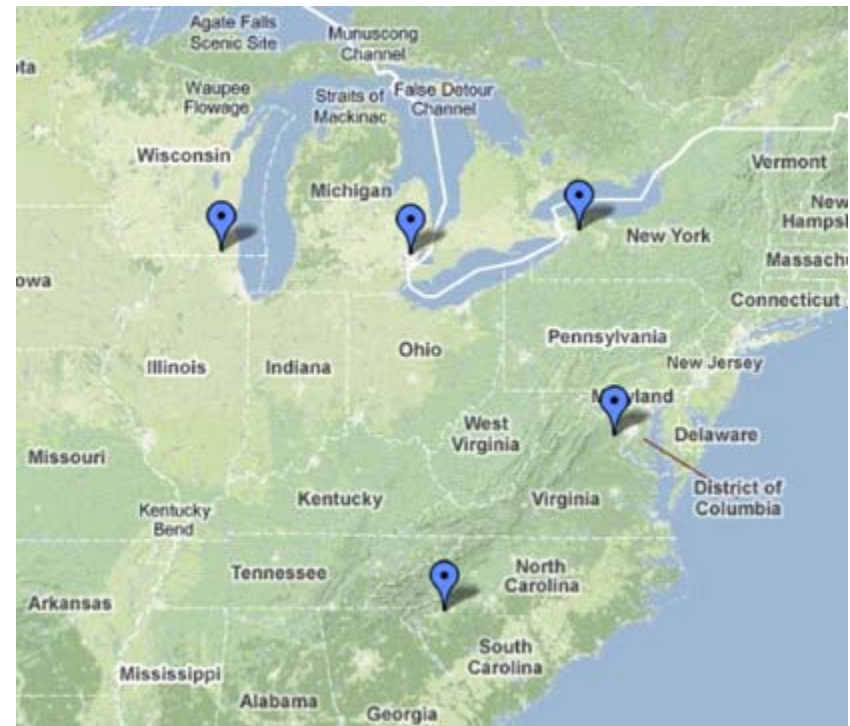


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MGA's History of Expansion

- MGA opens in New York, and expands from an office to laboratory and fabrication facilities in the early 1980's
- In the late 1980's MGA purchases the Proving Grounds and Crash Facility in Wisconsin
- Early 1990's Detroit area laboratory opens, expands throughout the decade
- In 2008 MGA expands to South Carolina region



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Driving Force Behind Expansion

- MGA's historical expansion has focused on providing services to our customer's needs.
 - MGA Wisconsin location provided full scale crash services and installation of dynamic sled facility
 - MGA Michigan location provided a local facility to many of our automotive industry customers

- MGA's recent expansion to South Carolina and Virginia are focused on introducing MGA's services to new areas
 - MGA South Carolina targeting southern automotive suppliers, specifically the BMW plant

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Virginia's Driving Force

- This new location will provide new opportunities to all of MGA
 - Efforts are focused on both local facility initiatives and company wide initiatives

- These initiatives are:

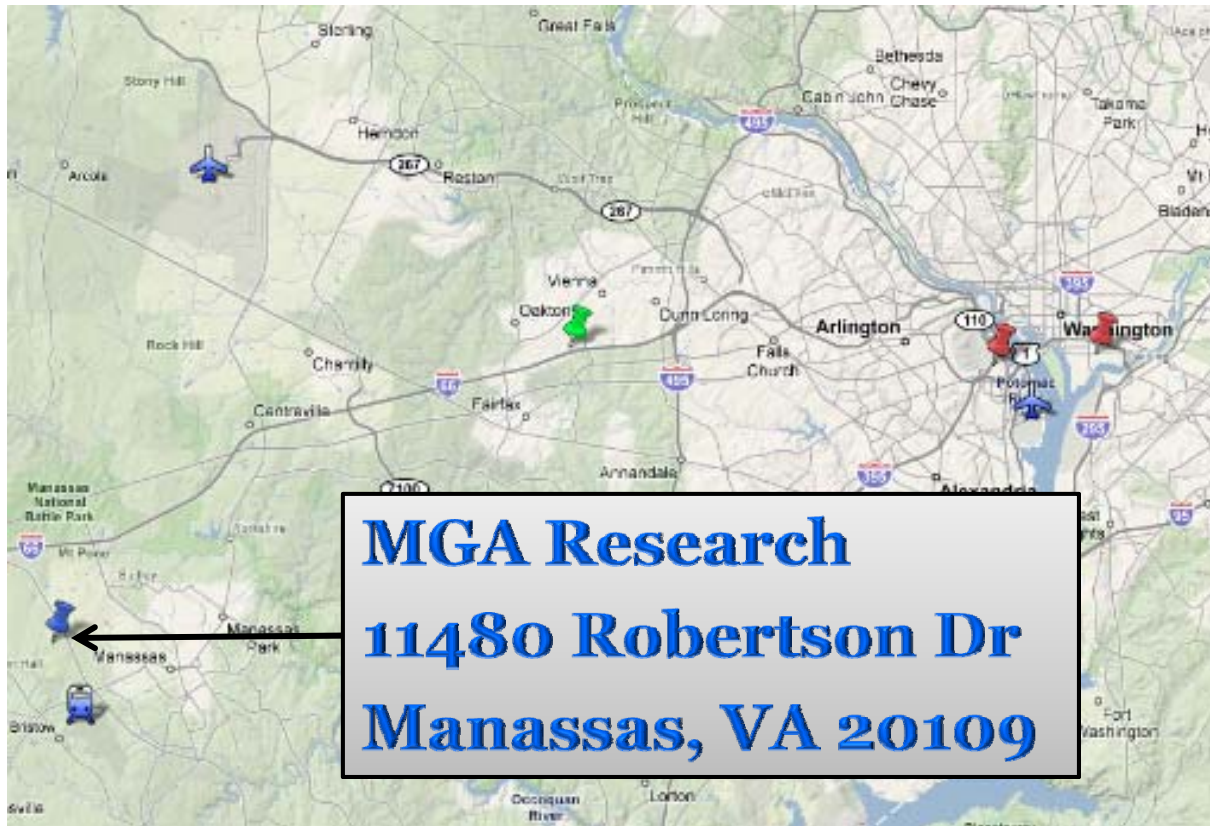
- Batteries
- Military Survivability
- Shock and Vibration
- Personal Protection
- Auto Industry



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MGA's New Surroundings



- Facility is located in Manassas, Virginia
- 35 miles from NHTSA and downtown DC
- VRE located 2 miles from MGA, leaves from Union Station

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MGA VA Facility

- 12,000 sq ft stand alone facility
 - 1,240 sq ft office with upper level
 - 10,760 sq ft laboratory
- Office space
 - Lower level finished with two conference rooms
 - Upper level 1,200 sq ft conference room
- Outdoor yard space for storage



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People in Virginia

- David Winkelbauer
 - Oversight and guidance
- Robert Schnorenberg
 - Military
 - Personal Protection
 - Automotive
- Steve Fazlovic
 - Batteries
 - Vibration
- Entire MGA staff
 - Support from MGA's large facilities



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Current Planned Equipment



● Impact System

- Small and medium linear impact heads
- Pyroshock

● Environmental Chambers

- Extreme temperature
- Thermal shock

● Vibration

- 3 axis Electro Dynamic shaker with slip table

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Batteries

- UN Recommendations on the Transportation of Dangerous Goods testing for lithium batteries
- Organizations
 - United Nations Sub-Committee of Experts on the Transport of Dangerous Goods
 - Department of Energy
 - Department of Transportation
 - Pipeline and Hazardous Material Safety Administration
 - Portable Rechargeable Battery Association



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Battery Goals

- Gain a deep understanding of the battery industry
 - Utilize Washington DC presence, participate in government and industry meetings
 - Respond to our customer's needs concerning large format battery testing
- Vehicle safety implications of large format batteries



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Survivability in Military



● Survivability Test Services

- Onsite Blast Testing (small scale)
- Offsite Large Blast Support
 - ATD and data acquisition
- Drop tower mine blast simulation

● US Army Research, Development, and Engineering Command (RDECOM)

- Army Research Lab (ARL)
- Aberdeen Proving Grounds
- US Army Tank Automotive Research, Development, and Engineering Center (TARDEC)

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Survivability Goals

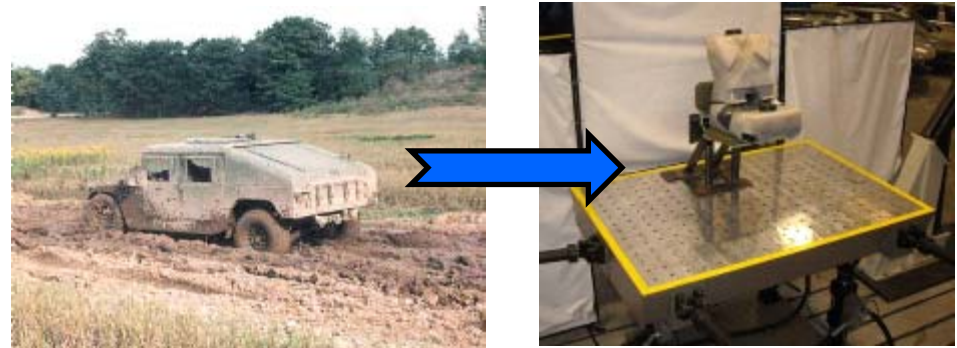
- Advancing our customers ability to evaluate their products
 - Providing new test methods, equipment, and instrumentation
 - Sharing experience gained in other safety testing
 - MGA's customer service minded approach
- Delivering comparable procedures to military facilities
 - Certification done at military labs
 - ARL and Aberdeen for survivability projects
 - Strengthen relationships with these groups to improve MGA's offered services

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Shock and Vibration

- Human exposure to shock and vibration events in military seating applications
 - Road Load Data
 - Multi-Axis Simulation Table
- MIL-STD-810
 - Environmental Exposure
 - Shock and Vibration
- Pyroshock



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Shock and Vibration Goals

- Combine MGA's expertise from several safety related areas to provide a response to a possible industry need
- Provide local test support for pyroshock and vibration testing
- National Defense Industrial Association (NDIA)
 - Industry group related to survivability, shock and vibration, and personal protection initiatives
 - Member of NDIA Test and Evaluation group



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Personal Protection

- MGA is in the NIJ accreditation process for stab and ballistic testing
 - NIJ 0101.06 Ballistic Resistance of Body Armor
 - NIJ 0115.00 Stab Resistance of Personal Body Armor

- Related Organizations
 - National Voluntary Laboratory Accreditation Program (NVLAP)
 - National Law Enforcement and Corrections Technology Center (NLECTC)
 - National Institute of Justice (NIJ)
 - Aberdeen and ARL



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Personal Protection Goals

- Extension of services offered to a current customer
- Benefits from effort overlap with other military related initiatives
- Pursue additional opportunities in the industry once experienced



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Automotive Industry

- MGA Research is an industry leader in occupant and automotive safety
- Related Organizations
 - Department of Transportation
 - National Highway and Traffic Safety Administration (NHTSA)
 - New Car Assessment Program (NCAP)
 - Insurance Institute of Highway Safety (IIHS)
 - Auto Alliance
 - Association of International Automobile Manufacturers



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Automotive Industry Goals

- Similar to other initiatives, utilize Washington DC presence to increase participation within the industry
 - Technical Sessions
 - Industry Meetings
 - Conferences and Conventions
- Develop the knowledge gained from increased participation to provide improved services to our customers
- Provide local test support as determined from our customer's needs



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The logo for MGA Research Corporation features a series of horizontal blue lines of varying lengths on the left, followed by the lowercase letters 'mga' in a bold, white, sans-serif font. Below this, the words 'mga research corporation' are written in a smaller, white, sans-serif font.
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