NDIA 2001 Vehicle Technologies Symposium
Intelligent Systems for the Objective Fleet
May 30, 2001

Program Manager for SmarTruck: GerMaine Fuller-Simms

Tank-automotive & Armaments COMmand
**Title and Subtitle**  
SmarTruck

**Author(s)**  
Simms-Fuller, GerMaine

**Performing Organization Name(s) and Address(es)**  
TACOM

**Sponsoring/Monitoring Agency Name(s) and Address(es)**  
NDIA (National Defense Industrial Association) 211 Wilson BLvd., Ste. 400 Arlington, VA 22201-3061

**Distribution/Availability Statement**  
Approved for public release, distribution unlimited

**Supplementary Notes**  

**Abstract**

**Subject Terms**

**Report Classification**  
unclassified

**Classification of Abstract**  
unclassified

**Number of Pages**  
11
History

• First Generation SmarTruck 1995

• Second Generation SmarTruck Contract Award August 2000

• Second Generation SmarTruck Unveiled at the Society of Automotive Engineers (SAE) 2001 World Congress
Purpose of SmarTruck

- Provide the Army with a commercially based vehicle platform to test, integrate and showcase emerging intelligent vehicle technologies

- Develop strategies to modernize and equip the Army’s Light Tactical Vehicle fleet with dual use technology

- Develop a vehicle electrical architecture for potential insertion into the Army’s future light weight combat systems
Platform Specifications

- Ford F-350 with extended crew cab
- 7.2 Liter Navistar Power Stroke Diesel V8
- Electronic 4Speed Automatic Transmission
- Extend bed with a specially designed ballistic cover
- Overall weight 11,000 lbs.
- Height 6’ Width 8’ (including mirrors) Length 22’
SmarTruck Current Capabilities

- Bullet Proof Glass
- On-Board Diagnostics
- ARMORMAXS
- Wireless Communication
- Non-Lethal Weaponry
- Night Vision
- B.F. Goodrich Run Flat Tires
- Touch Screen Display
- Global Positioning System
- Bomb Detection

Committed to Excellence (As of 21 May 2001)
SmarTruck Future Capabilities

- Multi Data-Bus Electrical Architecture
  - J-1850
  - J-1708/1587
  - J-1939
  - IDB-CAN
  - MOST
  - IDB-M
  - Wireless Network
SmarTruck Future Capabilities

• Voice Activation
• Alternative Propulsion System
• Collision Warning System
• Nuclear Biological and Chemical Detection
• QUADRASTEER™
• Robotic Reconnaissance Capabilities
• Video Teleconferencing
Media Exposure

• ABC National News
• Time Magazine
• National Geographic TV
• Travel Channel
• CNN
• Popular Science Magazine
Agency Interest

- US Army Special Operations
- Drug Enforcement Agency (DEA)
- US Marshal Service
- New York Port Authority
- US Border Patrol
- Sheriff Departments
- Diplomatic Security Core
- FBI
Collaboration Thrust Areas

- Voice Activation System
- Alternative Propulsion
- Integrating Robotic Control
- Improving Bandwidth for Video
Contact Information

GerMaine Fuller-Simms
U.S. Army TACOM NAC
6501 East 11 Mile Road
Warren, Michigan 48397

Tele: (810) 574-8959
FAX: (810) 574-6996
Email fullerg@tacom.army.mil