

Set Up Page



GENERAL DYNAMICS
Land Systems



Presented By:

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Commander, DCMA GDLS

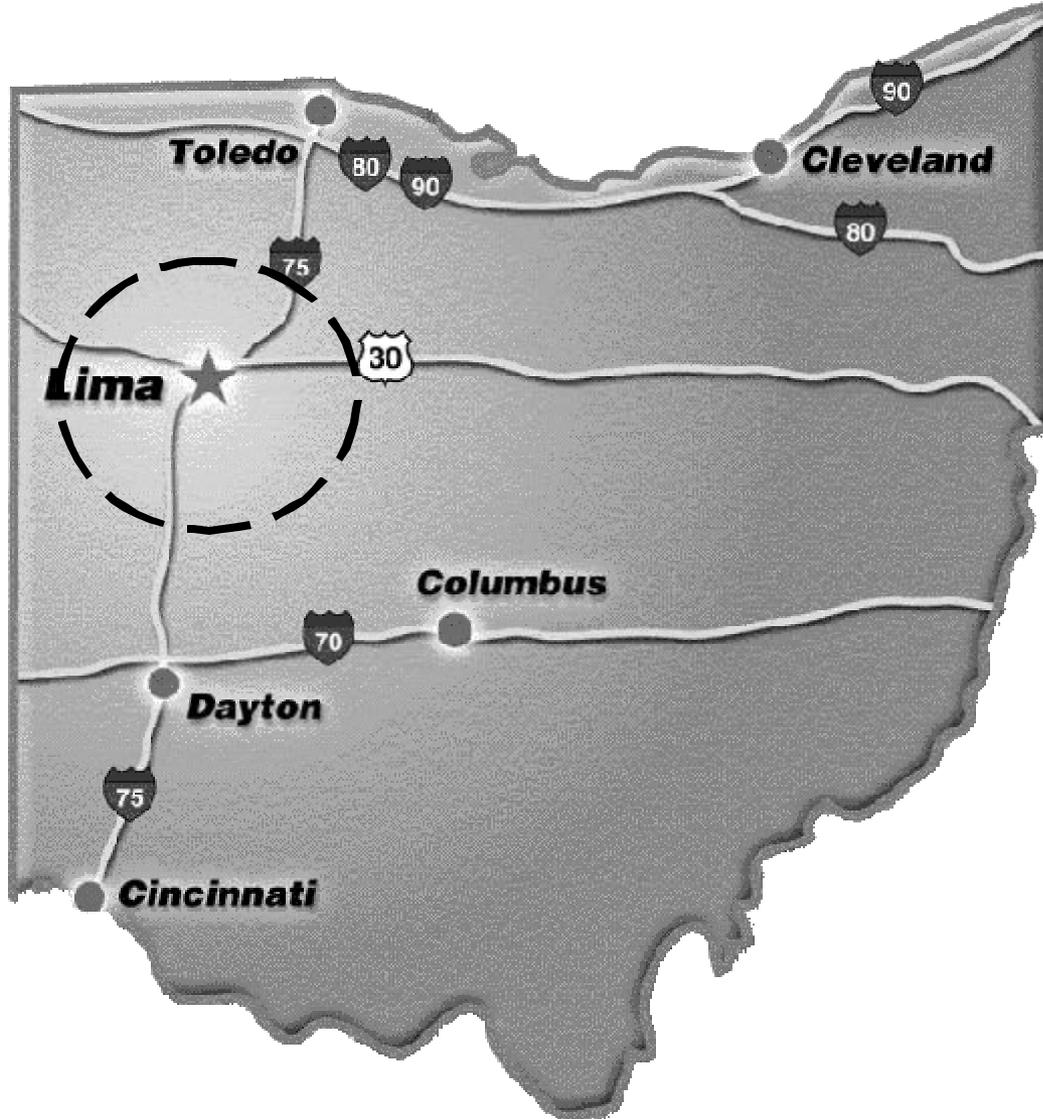
April 13, 2004

"America's Only Complete Vehicle Solution"

TODAY'S AGENDA

- **Introduction**
- **Mission / Vision Statements**
- **What Makes JSMC Unique**
- **Investment**
- **Workload**
- **Partnerships**
- **Facilities/Technology**
- **Community**
- **GWOT Support**
- **Conclusion**

WHERE ARE WE?



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INTRODUCTION

- Not Just a Tank Plant anymore!
- Reputation was Army and the Abrams Tank
- Reality is All Services and the Stryker, Expeditionary Fighting Vehicle, Navy Turrets, Future Combat System, as well as Abrams and FMS
- Secure Manufacturing Facility
- Any Material, Any Size, Any Service, Start to Finish

MISSION STATEMENT

Joint Systems Manufacturing Center - Lima provides the United States Military with a premier industrial facility capable of manufacturing, repairing, refurbishing, and testing the full spectrum of armored combat vehicles and defense systems.

VISION STATEMENT

- Any Material, Any Size, Any Service!
- Be the Department of Defense facility of choice for manufacturing combat systems.
- Be capable of any industrial mission to support combat vehicles and weapons systems, including fabrication, manufacture, upgrade, and test.
- Set the standard for teaming between Government and Contractor personnel.
- Provide a flexible and responsive organization, able to quickly adapt to customer requirements while continuing to provide high quality products.

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WHAT MAKES JSMC UNIQUE

- Military vehicle production facility capable of sustained high rates of production at 100-125 structures/vehicles per month
- Rapid responsiveness – When you need it right and need it right now
- Largest machining/fabrication product envelope in the Department of Defense
- Full spectrum of manufacturing from raw material to finished product
- Flexible manufacturing line (any vehicle type or size)
- 150,000 square feet of secure manufacturing space (compliant with Director of Central Intelligence Directive on Secure facilities)
- 2 Miles of test track and test facilities
- Weld school with ability to certify over 130 Welding Processes
- Only government owned contractor operated vehicle manufacturing facility
- Still the ONLY U.S. tank production facility
- Modern digital network infrastructure.

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CAPITAL INVESTMENT

Current Investment	\$500,000,000
FY04 Funding Allocated	\$ 30,720,000
Plasma Cutting System	
Laser Machine	
Vertical Mills	
Horizontal Mills	
EFV Tooling and Facilitation	
FY05 Programmed	\$ 14,022,000
Machining Centers	
EFV Modifications	
General Dynamics Planned Investment	\$ 12,500,000
TOTAL CAPITAL INVESTMENT	\$557,242,000

HUMAN INVESTMENT

WORKFORCE

INVESTMENT IN UNIQUE SKILLS & TECHNIQUES

Production Welders:

- 231 Certified Welders
- 9.5 Welding Certifications per Welder
- 60 Welding Certifications Required for M1 Manufacture
- 10+ Million Hours of Production Welding Experience
- 3.3 Years Required to Re-establish this skill base

Production Machining/Paint/Assembly:

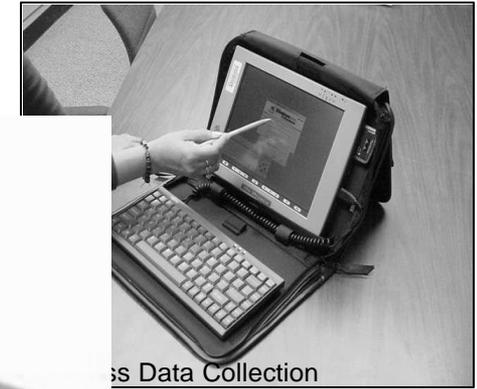
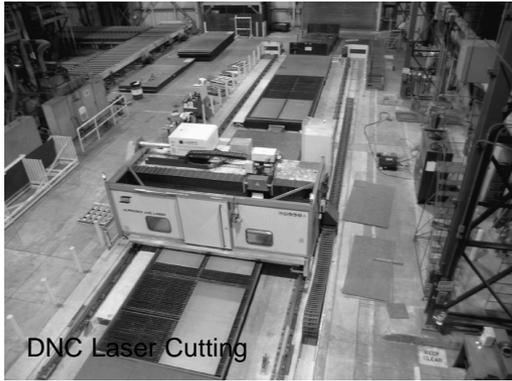
- 178 Experienced Employees
- 10.2+ Million Hours Experience

Engineering Technical Support:

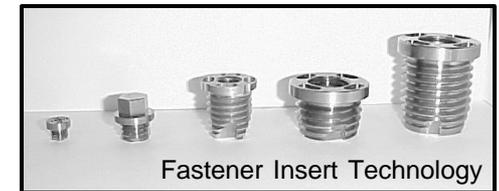
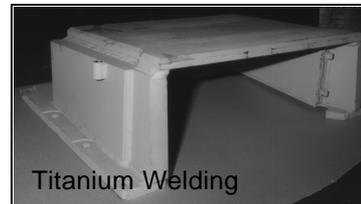
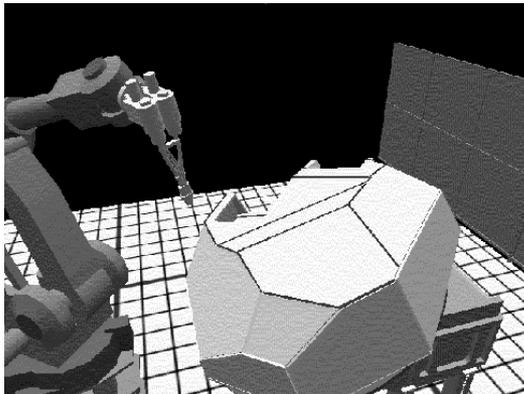
- 200 Design/Manufacturing/Quality/Facilities Employees
- 9.5+ Million Hours of Experience

WHAT WILL JSMC BRING

- New Technologies



- *Robotic Tandem Wire Aluminum*
- *Improved Titanium Welding*



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TRANSITIONING TO THE FUTURE

ENABLERS

TECHNOLOGY

STRATEGIC PARTNERING

PROCESSES

BUSINESS PLAN

J S M C

Stryker

Expeditionary Fighting Vehicle

Future Combat System

Mark-46 Turret

Foreign Military Sales

M1 Abrams

ENABLING WORKFORCE (Teaming)

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Lima Army Tank Plant
M1 ABRAMS

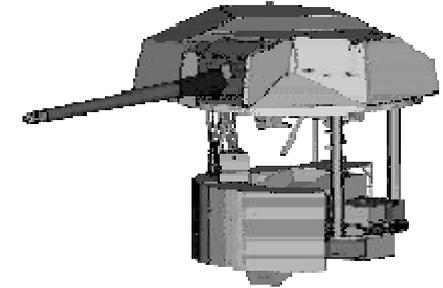
JOINT SYSTEMS MANUFACTURING

for

Marines



A



Mk 46 Weapons Station

**Special
ares**



F
System



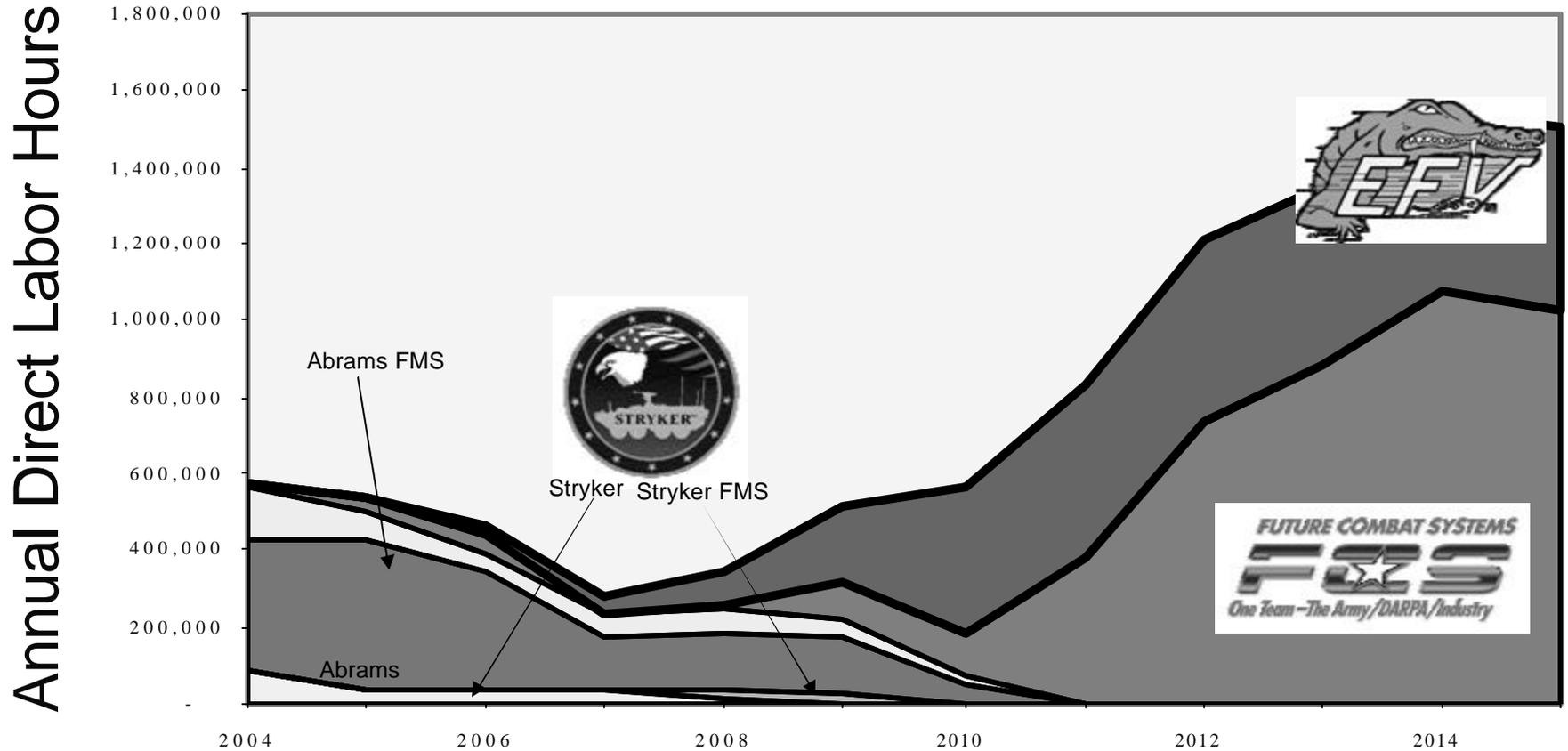
**Expeditionary Fighting
Vehicle**

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WHAT COULD JSMC TAKE ON?

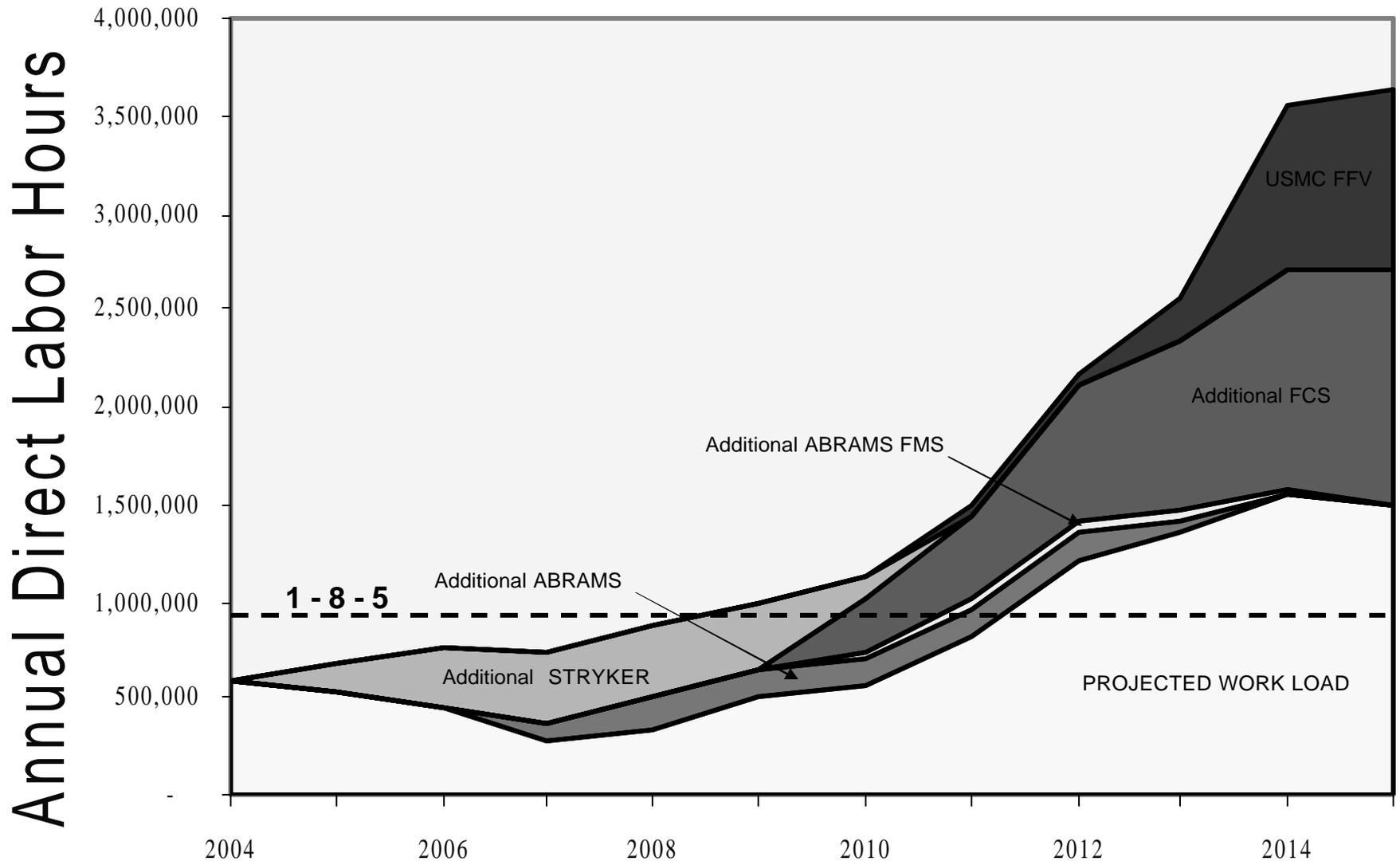
- **Expanded Stryker Production**
 - Structure Manufacturing from London, Ontario
 - Final Assembly & Test
- **Expeditionary Fighting Vehicle Assembly**
 - Vehicle Assembly programmed for a new facility in Virginia will be done at Lima - less cost/less risk.
 - Sub-structure fabrication currently provided by a subcontractor will be done at Lima - more efficient/less cost.
- **Expansion of Future Combat System Structures**
 - Currently 3 of the Future Combat System vehicle structures will be done at Lima. Could add all structures.
- **Armor Kits & Parts**
 - Capacity for fabrication of armor kits and components for all vehicles in the inventory

PROJECTED WORKLOAD



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POSSIBLE WORKLOAD



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PARTNERSHIPS

- Government / General Dynamics Leverage
- JSMC / Egyptian Tank Plant
 - *Materials*
 - *Training*
 - *Technical Assistance*
- General Dynamics / Anniston Army Depot
 - *Abrams – AIM (Army Integrated Management)*
 - *Stryker*
- Korean Tank Program
- General Dynamics Welding Technologies
 - *Technologies Corporation*
 - *Edison Welding Institute*
 - *Advanced Manufacturing Engineering Technology*
 - *ABB Robotics*

ENTERPRISE EXCELLENCE

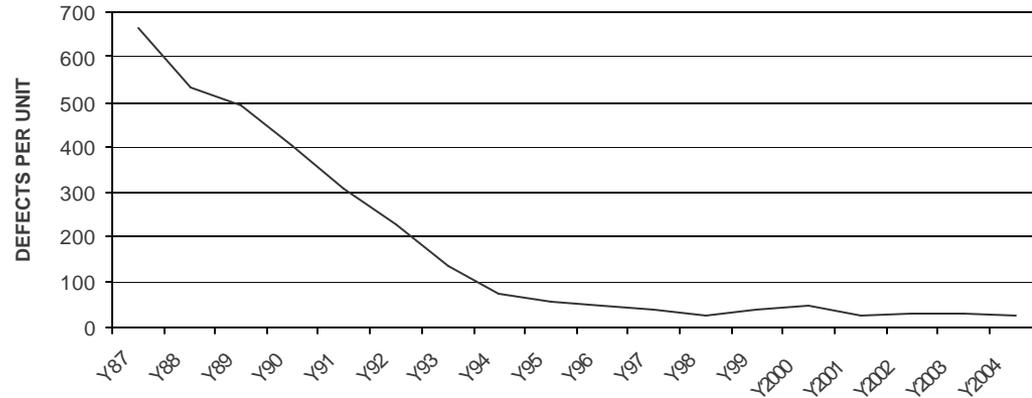
Production and Facility fixed cost contracts.
 Since Beginning of Program

Net Objectives: Quality
 Efficiency
 Cost
 Schedule

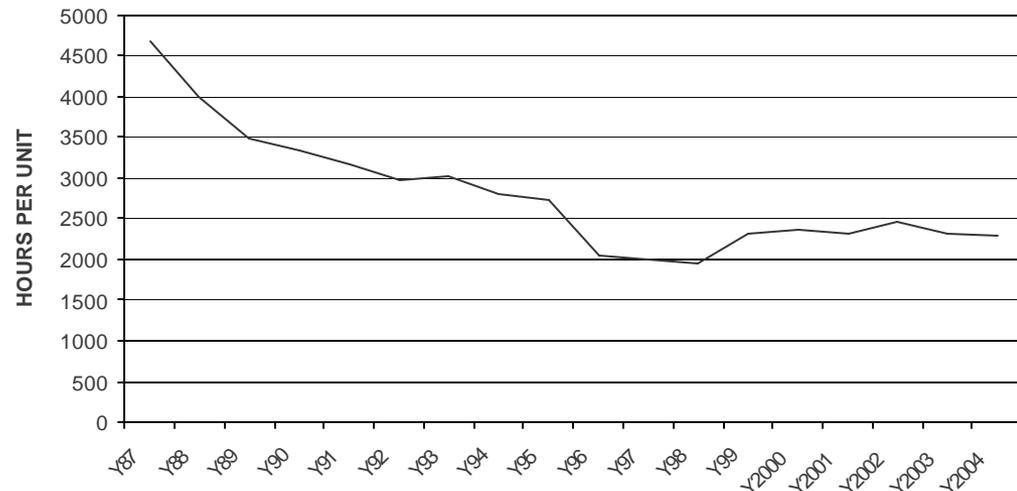
Whole System Architecture
 Model Centric Planning
 Lean Manufacturing
 ISO Certified since 1997
 9001-2000
 14001- Environmental

Statistics based upon equivalent units

LIMA PERFORMANCE
 DEFECTS PER UNIT



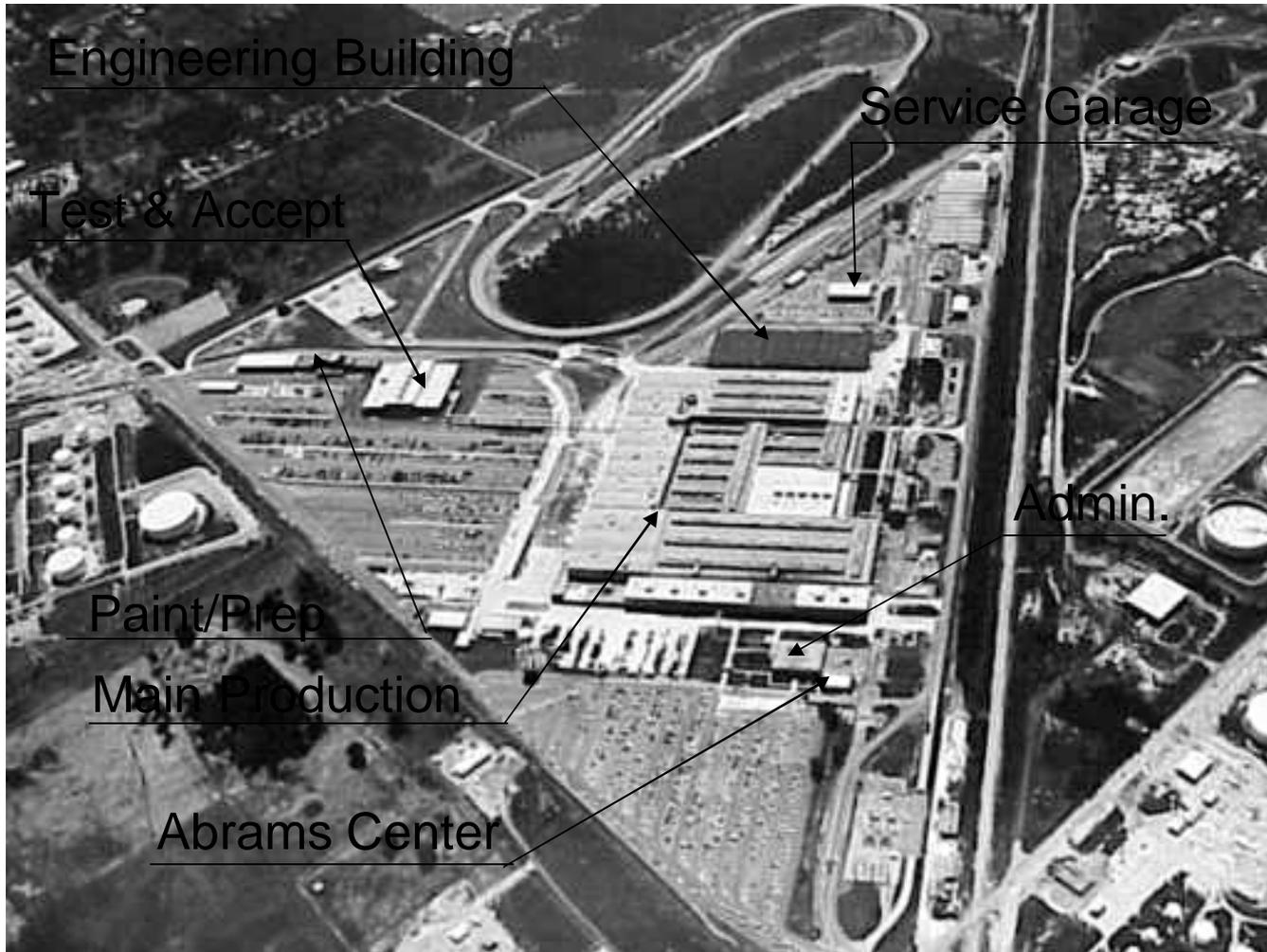
LIMA PERFORMANCE
 HOURS PER UNIT



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JSMC FACILITY COMPLEX

GOCO allows for the synergy of **cost effectiveness** and **responsiveness** with private industry while maintaining long term control of the equipment and facility for preservation of **mission readiness**.



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JSMC CORE MANUFACTURING PROCESSES



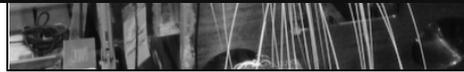
Struc



Titan



DNC Plasma Cutting



Aluminum Structure Welding



Hull Machining



ing

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LARGE COMPUTER NUMERICAL CONTROLLED MACHINING



Large in size – Numerous in Quantity

13 horizontal mills
2 gantry mills

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ARMOR FABRICATION BUILDING



Automated Storage & Retrieval System

Secure Facility For Secret-Special Access Manufacturing
Compliant with Director of Central Intelligence Directive 1/21
Can be Accredited for Top Secret-Secure Compartmented Information

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COMMUNITY INVOLVEMENT

- Task Force LIMA (Linked In Mutual Alliance): Public-Private entity committed to looking for commercial work for the plant
- Visitor Tours – 4045 visitors in 2003 (includes Presidential Visit)
- Lima Area Security for Emergency Response (LASER) Task Force: Protection interaction with local enforcement and industry
- M1-E1 tank display for community events
- On-site community ceremonies
- Veterans' memorial monument project
- Local Army Reserve support
- “Adopt-a-Soldier” Program
- Local law enforcement on-site training support
- Student career support
- Participation in Allen County Emergency Management Agency

COMMUNITY/ECONOMIC IMPACT

LABOR INCOME - PAYROLL

Direct (724 employees)	\$ 57,762,619
Indirect (542 employees)	\$ 14,548,367
Total	\$ 72,310,986

PURCHASING POWER

Direct	\$133,440,384
Indirect	\$ 40,873,543
Total	\$174,313,927

TAXES

Federal	\$ 14,392,691
State/Local	\$ 5,217,496

TOTAL COMMUNITY IMPACT:

Direct	\$185,633,985
Indirect	\$ 55,421,816
Total	\$241,055,801

POPULATION STATISTICS

Lima City	41,578
Allen County	108,473

MAJOR LOCAL EMPLOYERS

1. Ford Motor Company	2,200
2. St. Rita's Medical Center	2,046
5. JSMC	724

UNEMPLOYMENT RATE 5.2%

CONTINUING EDUCATION:

Ohio State University – Lima Campus
 University of Northwestern Ohio
 James Rhodes State College
 Ohio Northern University
 Bluffton College
 Apollo Joint Vocational School

(2000 U.S. Census Data)

THE GREEN SLIDE

Production Relocation – 6 to 8 years for Environmental Requirements.

The plant is fully permitted and compliant with all EPA regulations.

The GDLS environmental staff has an average of 22 years experience with the plant program and have an excellent rapport with Ohio & US regulators which provides the knowledge and skills base for compliance.

The plant has never received a monetary fine from any US, Ohio, or local environmental regulators. There are no EPA open enforcement actions or issues. (Approximately 107 regulator audits to date)

Clean Air Act Title V Permit ID Number 03-02-02-0027

ISO 14001 Certification in process – Target completion date 31 Dec. 04

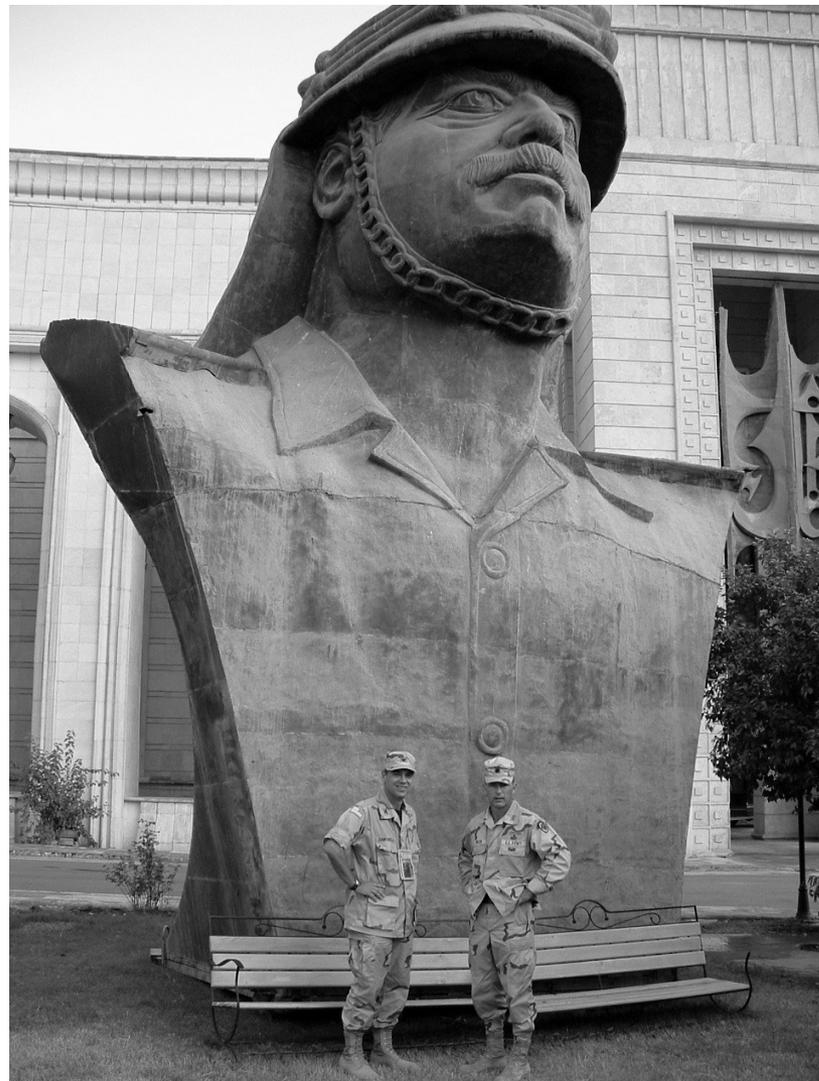
Number of Audits: 107 Open Violations: 0 Fines Assessed: 0

JOINT SYSTEMS MANUFACTURING CENTER

- Not just a Tank Plant anymore!
- Reputation is Army only
 - *Reality is Army, Marine Corps, Navy, FMS*
- Reputation is Abrams only
 - *Reality is the Abrams, Stryker, Expeditionary Fighting Vehicle, Navy Turrets, Future Combat System—Any Material, Any Size, any Service!*
- America's Only Complete Vehicle Solution

GLOBAL WAR ON TERRORISM SUPPORT

- Abrams Rear Armor Protection Kits—1 week turnaround from idea to delivery in the Mid-east
- Stryker Interim Slat Armor—330 kits in 90 days
- Development of the Mark 6 Gun Turret for the US Navy in response to the USS Cole attack
- Deployed 4 officers to Operations Iraqi Freedom and Enduring Freedom



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PRESIDENT GEORGE W. BUSH

April 24, 2003



**“When our soldiers and Marines needed you most, when the pressure was on, you came through.
And America is grateful.”**

George W. Bush

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JSMC

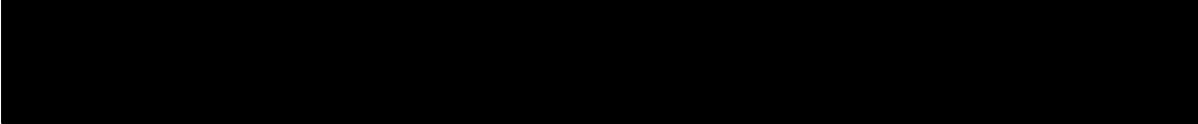


GENERAL DYNAMICS
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Questions ?

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Thank You

