



Tobyhanna Army Depot Mission and Capabilities Partnering with Industry

Presented by:

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CECOM Bottom Line: THE WARFIGHTER

TOBYHANNA
ARMY DEPOT EXCELLENCE
IN ELECTRONICS

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Outline

- **Teaming with Industry**
- **Missions**
- **Capabilities**
 - **Engineering**
 - **Overhaul / Repair**
 - **System Integration**
 - **Force Projection**
- **Summary**



Teaming with Industry



- TYAD actively partners with industry to provide high quality, cost-effective, full service maintenance, fabrication and logistics support for advanced electronics systems.

2474

Partnerships and Direct Sales

- Raytheon
- Lockheed Martin
- EPS
- Titan
- TRW
- Areojet
- Canadian Marconi
- Lear Siegler
- ARINC
- CSC
- Signal Corp

4543

2208(j)

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Teaming with Industry



- **10 US Code**
 - **2474 - Center for Industrial and Technical Excellence (CITE)**
 - **Secretary of Army designated TYAD as the CITE for communications-electronics, radar, avionics, and missile guidance and control**
 - **4543 - Direct Sales**
 - **2208(j) - Subcontracting**



**REPAIR/
OVERHAUL**



**SYSTEMS
INTEGRATION**



**ENGINEERING
SERVICES**

MISSIONS

**FABRICATION/
MANUFACTURING**



**FORCE
PROJECTION**



**HIGH TECH
TRAINING**





Engineering Services



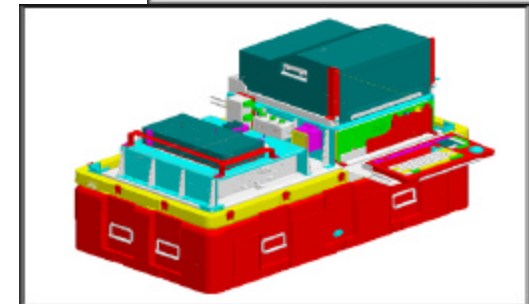
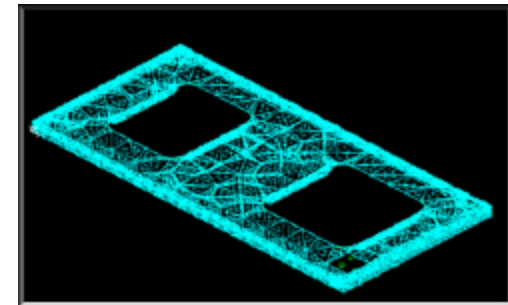
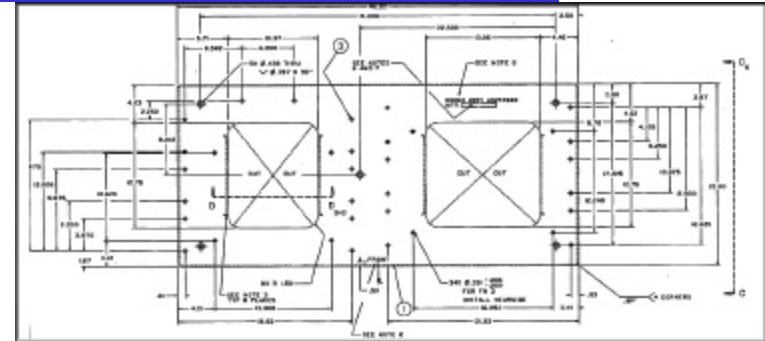
- **Maintenance engineering**
- **Testing methods development and analysis**
- **Support to PMs and industry developing new systems**
- **System design, manufacturing and integration**
- **Configuration management of technical data**
- **Technical publications (IETMs)**



Computer Aided Engineering

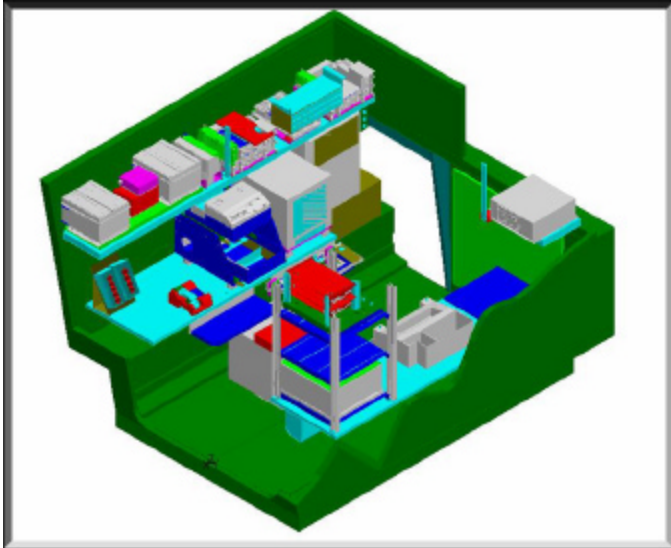
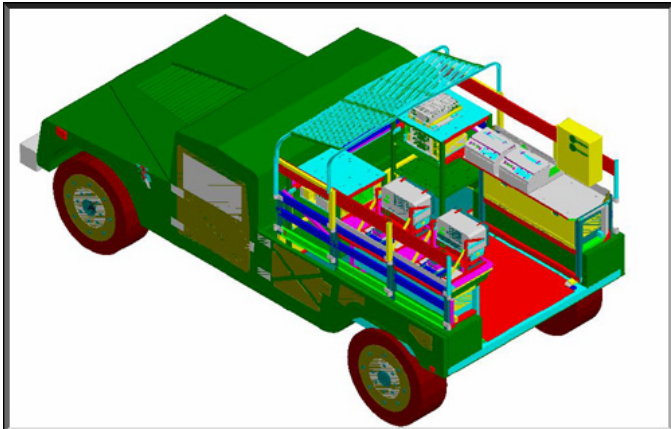


- **System software**
 - PRO-ENGINEER 2000 i2
 - CADD5 5
 - AUTOCAD 2000 i
 - COSMOS
- **3-D solid parametric modeling**
- **3-D project visualization**
- **Numerical code (NC) generation**
- **Finite element analysis**
- **Mechanical & electrical drawings**





Computer Aided Engineering



Models
To
Reality





Overhaul Commodities



- Radio
- Communications
- SATCOM
- Electro-Optics Night Vision
- Missile (Guidance & Control Electronics)
 - Maverick
 - Sparrow
 - Sidewinder
- Ground Support Equipment

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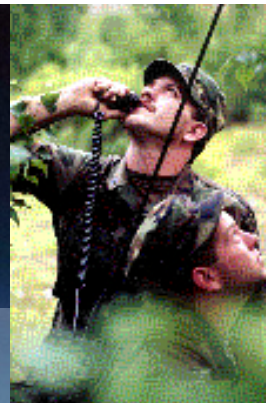
Overhaul Commodities



AN/TSC- 85



AIM-7 SPARROW



SATCOM
DCSS Site



AN/TSC-93C



OE-222
Antenna



PRC-112



AGM-65
MAVERICK



SINGGARS



AIM-9 SIDEWINDER

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Overhaul Commodities



- **Avionics**
- **Air Traffic Control**
- **Surveillance**
- **Command, Control and Computers**
- **Intelligence Electronic Warfare**
- **Range Threat**



Overhaul Commodities



CGS



GUARDRAIL



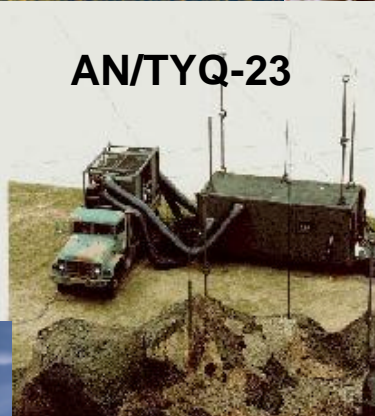
AN/FPS-117



AN/ARC-220 Radio
with ICS



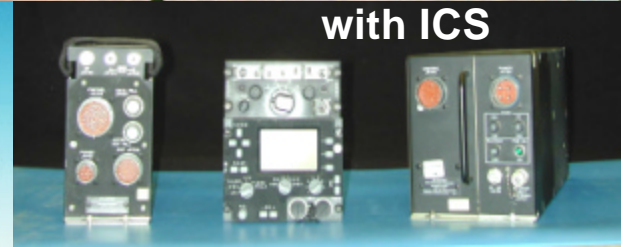
AN/TPN-19



AN/TYQ-23



AN/TPS-75



AN/ARC-220 Radio
with ICS



AN/GPN-22



AN/FRN-43

AN/GRN-29



AN/GRN-29



Systems Integration



- **Prototype development**
- **Modification / downsizing**
- **Production**
- **Technical Data Package development**
- **System testing**
- **Fielding support**





Systems Integration



Presses



Turning



Tactical End Item Repair Facility



Waterjet Cutting



Milling



Systems Integration Firefinder



- **Member of IPT with Raytheon and SAMD**
 - Designed, manufactured, and installed upgrade kits
 - AN/TPQ-36 - Turkey, Egypt, and Portugal
 - AN/TPQ-37 - Singapore
- **Teaming with Raytheon**
 - Designed and manufactured AN/TPQ-47 Prime Power Group - 2208(j)
 - AN/TPQ-37 upgrade kits
 - Direct sale (4543) - Greece



Systems Integration Firefinder



AN/TPQ - 37 (V)6



AN/TPQ - 36 (V)8



AN/TPQ - 47 Prime Power Group



Systems Integration: Fielding Support Balkans Digitization Initiative (BDI)



- **Collaborative Effort – TYAD with**
 - PEO, C3T; QUALCOMM; Kontron Mobile Computing; TRW
- **Enhanced Information System (EIS)**
 - Vehicle tracking via GPS
 - E-mail capability
 - Satellite based transmit / receive secure data
 - Video displayed maps / geographic locations
 - FBCB2 Situational awareness
- **Future initiative – “Blue Force Tracking”**
 - Adds Raytheon and COMTECH Mobile Datacomm



Systems Integration: Fielding Support Balkans Digitization Initiative (BDI)



- **Fielded**
 - U.S. Army Europe (USAREUR) - 654
 - Bosnia, Kosovo, Southern European Task Force SETAF)
 - Maintenance support

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Systems Integration: Fielding Support Brigade Combat Team



- **Light Armored Vehicle (LAV) experiment, Ft. Lewis, WA**
 - **Canadian LAV and German Fauch**
 - **CECOM RDEC / TYAD team**
 - **Design, manufacture, integration, and test**
 - **33 total systems**
 - **All designs validated on CAE prior manufacturing**
 - **Successfully completed by Oct 00**
 - **Future opportunities - 2nd and 6th Brigades**



Systems Integration: Fielding Support Brigade Combat Team (BCT)



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Force Projection



Forward Repair Activities

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Force Projection

Tech Assistance Programs

Systems Fielding
Mobile Depot Maintenance
Contingency Support

FY02
10,415 Days
Worldwide

FY01
27,201 Days
Worldwide

FY00
28,970 Days
Total

Field Service Reps

Guardrail Support

224th Mi BN
15th Mi BN

3rd Mi BN
1st Mi BN

Forward Operating Location
Okinawa USMC Support

Forward Repair Activities

Conus:

Ft Bragg
Ft Hood
Colonial Heights
Ft Lewis

Oconus:

Friedrichsfeld, GE
Korea
Schofield Bks, HI
*Saudi Arabia (Tbd)

Bosnia and Kosovo (Temporary Locations)

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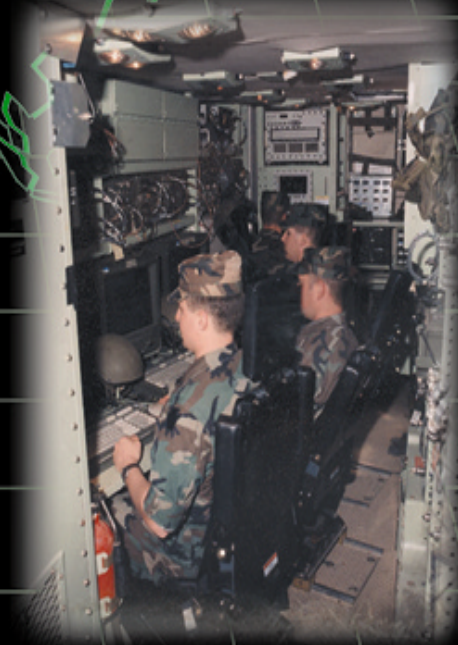


Summary



- **TYAD offers industry**
 - **Repair and overhaul capability of all electronic equipment**
 - **Engineering functions include design, manufacturing, repair, and overhaul**
 - **Manufacturing and system integration functions**
 - **Field installation teams**
 - **Mobile Depot Maintenance**
 - **Technical Assistance**
 - **Installations**
 - **Force Projection Presence**

BOTTOM LINE . . .



the Warfighter