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(INCLUDING THIS COVER SHEET)

COMMENTS

Commercial Technology for Depot Maintenance (CTDM)
A Technology Development and Deployment Program to Support DOD Logistics

This program will enable the military services to maintain their organic depot workload at a technical level comparable to that of private industry resulting in higher quality, faster delivery time and lower cost.

CTDM supports the Administration goals of reinventing government, reducing government costs and improving efficiencies in federal procurement.

DOD-wide benefits

The majority of advanced manufacturing technologies reside in the commercial sector.

Access by DOD's organic logistics facilities to these technologies is **limited** since most of these companies choose not to work with DOD through the traditional procurement process.

As **sustainment costs** rise and become an increasing proportion of the austere DOD budget, the value of integrating technologies into the organic logistics base will rise.

The proposal will demonstrate that a wide range of commercial manufacturing technologies currently not available to DOD's organic base will have a substantial impact on the cost and readiness status of major weapon systems.

DoD will benefit from the leverage achieved through partnering with the commercial sector on a 2:1 cost share basis. In effect, DoD will be able to solve its organic base manufacturing problems for 33% of the cost, while at the same time gaining access to commercial technologies and manufacturing processes currently unavailable to it.

The CTDM program will demonstrate that the NCMS/DOD Logistics partnership impacts:

- **weapon system life-cycle cost reduction**
- **product development cycle time improvements**
- **readiness, reliability and technological superiority on the battlefield**

Projects

Future projects that could be funded at depots, ALCs and shipyards by CTDM:

1. **High performance machining (HyperMach)** will increase manufacturing productivity, by almost an order of magnitude, in selected machining applications.
DOD-wide impact: All depots will realize a reduction in the manufacturing time for airframe components in order to maintain mission capable rates for weapon systems.

2. The **advanced centerless grinding** program will result in higher accuracy, less floor space, greater cutting power, and the ability to implement superabrasive technology.
DOD-wide impact: This technology, not currently available, is essential for depots to produce precision ground cylindrical parts.
 3. The **cadmium alternatives** program will find a suitable replacement for cadmium plating which is used for corrosion protection on a wide variety of DOD components.
DOD-wide impact: Cadmium is environmentally unfriendly and worker exposure limits is a problem. An alternative to cadmium is essential.
 4. The **rapid prototyping** program will reduce the time to produce functional cast parts by 25 to 50 percent from current prototyping processes.
DOD-wide impact: This technology would enable the DOD to rapidly produce small lot sizes to meet requirements, resulting in less idle time for weapon systems and tremendous cost savings.
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