On-Machine Acceptance

Federal Manufacturing & Technologies

K. F. Arnold

KCP-613-6288

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CRADA Number 99KCP1079

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United States Department of Energy

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ON-MACHINE ACCEPTANCE
On-Machine Acceptance

Project Accomplishments Summary
CRADA Number 99KCP1079

Date: 12/22/99 Revision: A

A. Parties

The project is a relationship between
Honeywell FM&T Automated Precision, Inc.
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PO Box 419159 Gaithersburg, MD 20879
Kansas City, MO 64141-6159
Sandia National Laboratory
MS 0958
Building 957
1515 Eubank Blvd. SE
Albuquerque, NM 87123
B. Background

Probing processes are used intermittently and not effectively as an on-line measurement device. This project was needed to evolve machine probing from merely a setup aid to an on-the-machine inspection system. Use of probing for on-machine inspection would significantly decrease cycle time by elimination of the need for first-piece inspection (at a remote location). Federal Manufacturing & Technologies (FM&T) had the manufacturing facility and the ability to integrate the system into production. The Contractor had a system that could optimize the machine tool to compensate for thermal growth and related error.

C. Description

To develop a systematic application of probing on two axis machining centers for first-piece inspection of contours.

D. Expected Economic Impact

No impact due to project cancellation.

E. Benefits to DOE

No impact due to project cancellation.
F. **Industry Area**

On-machine measurement

G. **Project Status**

Terminated due to lack of funding.

H. **Point of Contact for Project Information**

<table>
<thead>
<tr>
<th>Ken Bauer</th>
<th>Karl Arnold</th>
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<tbody>
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I. **Company Size and Point of Contact**

N/A

J. **Project Examples**

N/A

K. **Technology Commercialization**

N/A
L. Release of Information

I have reviewed the attached Project Accomplishment Summary prepared by Honeywell FM&T and agree that the information about our CRADA may be released for external distribution.

Original signed by
Name: Kam Lau
Organization: President
Title: Automated Precision, Inc.

2/4/00
Date