

On-Machine Acceptance

Federal Manufacturing & Technologies

K. F. Arnold

KCP-613-6288

Published February 2000

Final Report/Project Accomplishments Summary

CRADA Number 99KCP1079

Approved for public release; distribution is unlimited.



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United States Department of Energy

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Honeywell

Federal Manufacturing
& Technologies

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Kansas City, Missouri

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A prime contractor with the United States

Department of Energy under Contract Number

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Honeywell

KCP-613-6288

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Date: 12/22/99

Revision: A

A. Parties

The project is a relationship between

Honeywell FM&T

Automated Precision, Inc.

2000 E 95th Street

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PO Box 419159

Gaithersburg, MD 20879

Kansas City, MO 64141-6159

Sandia National Laboratory

MS 0958

Building 957

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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

Ken Bauer	Karl Arnold
US Department of Energy	Honeywell FM&T
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Kansas City, MO 64141-0202	Telephone: (816) 997-4819
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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 2/4/00

Name: Kam Lau Date

Organization: President

Title: Automated Precision, Inc.