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MICROROOFER

FACILITIES MAINTENANCE SERVICES

NASA Ames Research Center MOFFETT FIELD, CA 94035-1000

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INTRODUCTION TO MICROROOFER

- What is the NASA Ames MicroRoofer System
- History of MicroRoofer
- Purpose
- Objectives
- Benefits of MicroRoofer
- Reports
- Examples of Worksheets and ACAD Files



WHAT IS THE AMES MICROROOFER SYSTEM

- An Engineering Management System
 - PC based computerized system
 - Database, analysis, and cost estimating features
 - AutoCAD graphics of roofs
- Types of Roofs
 - Bituminous built-up roofs
 - Single ply roofs
 - Shingled roofs



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OBJECTIVES OF MICROROOFER

- Systematic
 - Inclusive of wide ranging variables and conditions found on typical facilities
- Objective
 - Remove as much individual subjectivity from evaluations as possible
- Repeatable
 - Periodic inspections must be consistent for data input and report output
- Efficient
 - Checklist forms and computer-based data management
 - Training on MicroRoofer Inspection Protocols



- A complete inventory of the roof area, including roof system components, features, and penetrations
- Update of roof area plans on electronic media in AutoCAD
- Detection of defects by:
 - Wet insulation sampling and analysis
 - Visual inspection of membrane and flashings
- Summarizes findings in a ten year maintenance/repair program
- Determination of remaining useful life



- Developed by the U.S. Army Construction Engineering Research Laboratory
- Technical Assistance Provided by:
 - U.S. Army Cold Regions Research and Engineering Labs
 - U.S. Army Engineering and Housing Support Center
 - U.S. Navy
 - University of Illinois Technical Assistance Center
 - Civilian Roofing Consultants