

## IDENTIFICATION AND ELIMINATION OF SOURCES OF DYNAMIC PARTICLE GENERATION IN VERTICAL FURNACES

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A novel approach to defect identification and reduction is shown. TI Engineers along with Consultants from Yield Service International identified sources of Dynamic Particle generation in Vertical Furnaces. Findings reported include Hardware Design Flaws, Clearance Problems, Mechanical Rubbing and Misadjustments. Actions reported on Redesign by the Original Equipment Manufacturer, New Procedures for Adjustments and Improvements to Existing PM Procedures. Results are shown with Particle Wafer maps and Particle Trend Charts.