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ENVIRONMENTAL, HEALTH, AND SAFETY GUIDELINE FOR SEMICONDUCTOR MANUFACTURING EQUIPMENT

This Safety Guideline was technically approved by the global Environmental Health & Safety Technical Committee. This edition was approved for publication by the global Audits and Reviews Subcommittee on December 24, 2011. Available at www.semiviews.org and www.semi.org in July 2012; originally published in 1991; previously published February 2012.

NOTICE: Paragraphs entitled “NOTE” are not an official part of this Safety Guideline and are not intended to modify or supersede the official Safety Guideline. These have been supplied by the committee to enhance the usage of the Safety Guideline.

1 Purpose

1.1 This Safety Guideline is intended as a set of performance-based environmental, health, and safety (EHS) considerations for semiconductor manufacturing equipment.

2 Scope

2.1 *Applicability* — This guideline applies to equipment used to manufacture, measure, assemble, and test semiconductor products.

2.2 *Contents* — This Document contains the following sections:

1. Purpose
2. Scope
3. Limitations
4. Referenced Standards and Documents
5. Terminology
6. Safety Philosophy
7. General Provisions
8. Evaluation Process
9. Documents Provided to User
10. Hazard Alert Labels
11. Safety Interlock Systems
12. Emergency Shutdown
13. Electrical Design
14. Fire Protection
15. Process Liquid Heating Systems
16. Ergonomics and Human Factors
17. Hazardous Energy Isolation
18. Mechanical Design
19. Seismic Protection
20. Automated Material Handlers
21. Environmental Considerations
22. Exhaust Ventilation