

## IBM Microelectronics

Essex Junction, VT

### *Clean Room Design; Infrastructure Design Tool Accommodation; Sensor Integration Control System Integration*

International Business Machines (IBM) has world-class semiconductor manufacturing facilities in Essex Junction, VT and East Fishkill, NY. In 1994, IBM began a major renovation of the facility that was scheduled to last several years. When it comes to semiconductor facilities, IBM's needs are high technical competence, ability to meet aggressive schedules, constantly changing requirements and a working relationship based upon trust and integrity.

As a world leader in semiconductor manufacturing, IBM is able to choose from among the best; more often than not, they have chosen Hallam-ICS.

Hallam-ICS' diverse skill sets have proven valuable to IBM. When faced with a tremendous amount of work to upgrade their Central Utility Plant in a very short

time period, IBM turned to Hallam-ICS to provide a just-in-time, design, build solution. Trying to "save wafers" by monitoring and controlling specific variables on the semiconductor manufacturing tools, IBM selected Hallam-ICS to define the requirements, design the system, perform system installation and to commission the system. Needing to rapidly retrofit an existing fabricator without affecting manufacturing, IBM hired Hallam-ICS to drive the design process through detailed scheduling and creative approaches to design that enabled swift construction.

IBM and Hallam-ICS have enjoyed a relationship that has spanned over 20 years. IBM has enjoyed the benefit of continuity and established relationships, while continually demanding new ideas and high performance.

