Flat Panel – Roadmap to the Future

Ben Ighani
FPD Program Director for Technology & Manufacturing

Abstract

As consumer demand for affordable flat panel products intensified, everyone involved in the manufacturing side of the industry feels the increasing pressure to deliver flat panel products to the marketplace within a delicate pricing bracket that is low enough cost to satisfy consumers and a high enough to allow a reasonable profit for manufacturers. The key to achieving this delicate balance between cost and profit lies in manufacturing strategies.

This paper will review strategies for short term and long term factory profitability. Strategies included for discussion include:

- Technology roadmap for cost reduction

- Factory layout

- Facility planning

- Computer integrated manufacturing

- High level planning of projects

Mr. Ighani is a senior member of the technical staff of CH2M HILL IDC. With more than 22 years of experience in microelectronics and optoelectronics, his areas of expertise include strategic and tactical, innovative layout planning, facility and systems design and development, space management and optimization, lean manufacturing, operational efficiency, methods improvement, flow analysis (product, material and people), special product design and ergonomic analysis for existing and Greenfield fabs. Mr. Ighani also conducts technical training classes in cleanroom logistics and protocols. CH2M HILL IDC is a leading international design firm responsible for the design of AM LCD factories with experience through Generation 8.

In summary, CH2M HILL IDC has been able to bridge the gaps that can exist between process, design, engineering, building infrastructure requirements, project management and construction management. We have developed a variety of effective methods to integrate all of these important tasks and provide true turnkey support to our clients. This "total solutions" approach gives our clients the flexibility of having us provide an entire support package, or chose only the components of support they need for a given project.