

MICROELECTRONICS – Computer Peripherals

Thin Film Head Manufacturer Cleanroom Expansion



OVERVIEW

As a prime consultant, IES provided overall project engineering management, MEP design and Hazmat consulting for a Class-100 Cleanroom and Central Utility Plant with comprehensive engineering responsibility from project preplanning phase through design, permitting, construction, commissioning and operation.

PROJECT DETAILS

- Retrofit an existing 10,000 sq.ft. office space into:
 - Class-100 Bay & Chase Cleanroom with Central Makeup and Recirculation Air Handlers
 - 4,000 sq.ft. 2-Story Central Utilities Plant
- Mechanical Systems design included central Chilled Water plant, Heating Hot Water Plant, Makeup Air Handler and Central Recirculating Air Handling systems.
- Industrial Ventilation General Exhaust System
- Process Systems design included central PCW and CDA Systems; and Process Piping Distribution.
- 12-KV/480 Volt Power Distribution System and Emergency Power Distribution System.

IES SOLUTIONS

- Roof top central recirculating air handling systems mounted on free standing moment frames through roof structure.
- Two story central utilities plant and avoided accounting for the second level mezzanine as occupied space by providing steel grating catwalk system around all 2nd level mechanical equipment.
- Central facility chilled water plant by consolidating existing and new chilled water systems.
- Partial roof framing structural upgrade to support roof supported ductwork, pipe racks and electrical conduits without having to conduct complete roof system structural upgrade.

COMPANY

Thin Film Head Manufacturer

LOCATION

Milpitas, California

TEAM (PARTNERS)

Prime & MEP Consultant – IES
 Hazmat Consultant - IES
 Architect- WHL Architects
 Structural- MSI Consultants
 General Contractor–Adacon
 Mechanical Contractor–Therma
 Electrical Contractor–Cupertino Elec

PROJECT DURATION

Design & Permit - 4 months
 Construction – 7 months

PROJECT VALUATION

>\$13,000,000
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ABOUT IES

Integrated Engineering Services (IES) is an established firm providing innovative and cost-effective solutions to meet your complex engineering, design and operational needs.

When experience, knowledge and innovation matter most.