

Semiconductor Leader Retrofits Decommissioned Building for Cleanroom Spaces

RIO RANCHO NM 2022-2024

CHALLENGE

This semiconductor industry leader identified a decommissioned building to be re-purposed and retrofitted including expanded Class 1000/ISO 6 cleanroom space. The client needed a partner that can deliver a new cleanroom ceiling design, as well as Automated Material Handling Systems (AMHS) loads that were not part of the original building. To avoid substantially higher greenfield design and construction costs, the client needed a cleanroom partner that could substantially retrofit the cleanroom ceiling system in a challenging space.

SOLUTION

To address the retrofit challenge, the industry leader turned to Nortek Air Solutions CleanSpace for a complete overhaul of the ceiling system and performance audit of existing air handlers. Multiple Clean-Trak ceiling grid and plenum types and forced return-air chimneys (FRACs) were custom designed. The Nortek team provided critical building information modeling (BIM) Revit design services to incorporate these changes and successfully re-purpose an existing structure.

IMPACT

The Client identified this as their #1 profitability project for this time period. Through the partnership, the customer was able to successfully re-purpose the existing building, adding a custom ceiling design that allowed AMHS and live loads to be met. Throughout the 18-month project, the teams stayed in lockstep and avoided much higher new building construction costs and timelines. Approximately 130,000 square feet of Class 1000/ISO 6 cleanroom ceiling system was designed into an existing facility providing this industry leader expanded space in semiconductor manufacturing.

CLEANROOM PROJECT VALUE: \$18 Million

PROJECT TEAM

Confidential Client – Owner
Nortek – Equipment design & supply
Sundt – General Contractor
Page – Architectural Design

Ceiling grid In construction phase.



EQUIPMENT PROFILE

- Clean-Trak modular flush ceiling grid
- CleanPak Plenums & Plenum Caps
- Forced Return Air Chimneys
Creates increased return air in a space not designed for substantial recirculation otherwise
- Site Supervision and QC services

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