

NanoSILICON, Inc.

NanoSILICON, Inc. Facility

Located in the heart of Silicon Valley San Jose, California

Founded in 2010

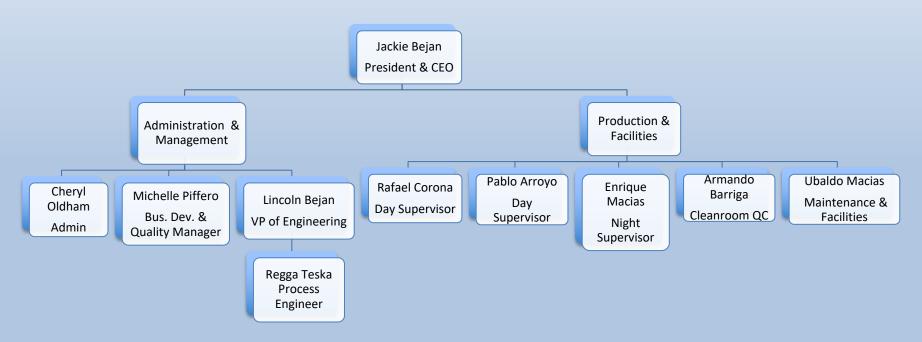
ISO 9001:2015 Certified 2022







Organizational Chart



Facility #2, 5,440 sqft *

Approximately 28 Employees*

NSi Product Offerings



- Full Silicon Reclaim Services: 50.8mm
 Through 300mm Diameters
- Silicon Wafer Sales: 50.8mm Through 300mm Diameters
 - Virgin Test, Virgin Prime, Reclaim Grade
- Alternative Substrates: Borofloat, Quartz, Fused Silica
- Thermal Oxide And Other Thin Film Deposition
- Semi Standard And Custom Wafer Specifications
- Metrology: ADE, KLA-Tencor 6220, Nanometrics 210
- Inventory Management And Consignment
- Laser Cut Down Edge Profiling Laser Scribe
- Cassette And FOUP Cleaning, Destruction
 Of Scrap, R & D Services

NSi Reclaim Capabilities

- Film Strip / Etch
 - Metal And Non-Metal Films
 - Separate Metal And Non-Metal Lines To Prevent Contamination
- Polish / Lap / Etch
- Laser Scribe
- Class 100 Clean Room
- Metrology
 - Type, Resistivity, Orientation, Particle Counting ≤30@0.16μm
- Specification Binning
- Full Final Disposition For Wafer Accountability





Virgin Test & Prime

Virgin Starting Material •Unique Virgin Lot ID •Spec Verification & WPO Submission Stock Removal •Final Polish •RCA Clean (SC1 and SC2) Megasonic Scrub •Visual ≤15@0.5μm •KLA-Tencor 6220 ≤30@0.16µm Poly &/or Foil bags Desiccant

NSi Process Flow

Reclaim



NSi Customer Lot Integrity

- Annual Yield Average of 90%
- Unique Traveler And Lot ID Per Specification
- Traveler Accompanies Wafers Throughout Production
- Production Alternates Diameters With Every Lot Change
- Each Department Records Yields And Approves Quality
 Before Passing To The Next Production Step
- QA Checks, Guarantees, And Applies A Final QA Sticker
 Signifying Specification Compliance







NSi Metrology Tools



ADE Microsense 6033 Indicates Thickness, Resistivity, & TTV





Nanometrics 210



Verifies Oxide Film
Thickness And Uniformity



NSi Metals Policy

- Chem Trace Quarterly Metals Testing
- VPD ICP-MS Method
 - Vapor Phase Decomposition
 Inductively Coupled Plasma Mass
 Spectroscopy
- Thirty Different Elements Tested
- Focus On Nine Elements Important To The Semiconductor Industry

NSi Metals Data:

Aluminum Al <5E10

Calcium Ca <5E10

Chromium Cr <5E10

Copper Cu <1E10

Iron Fe <5E10

Nickel Ni <5E10

Potassium K <5E10

Sodium Na <5E10

Zinc Zn <5E10





Appendix

NSi ISO 9001:2015

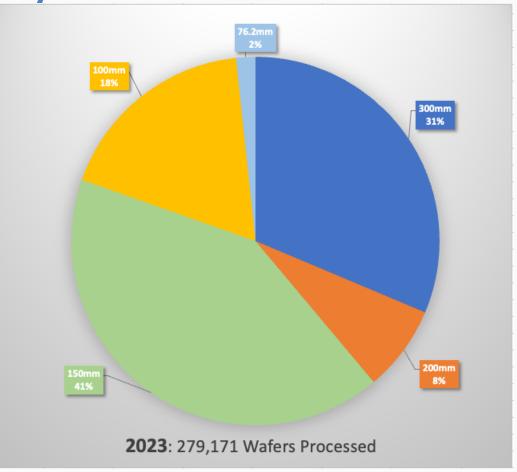
ISO Certified Since 2022



NSi Processed By Diameter

- Annual Yield Average 90%
- Annual OTD Average 100%
- Wafers Processed Per Diameter
 - 41% 150mm
 - 31% 300mm
 - 18% 100mm
 - 8% 200mm
 - 2% 76.2mm







NSi BCP And CSR

Business Continuity Plan

- Secondary Backup Tools And Tool Parts
- Sizable Inventory Of Consumables And Scheduled Routine Deliveries
- Adequate Insurance Coverage For All NSi Tools, Consumables, And Inventory

Corporate Social Responsibility

- Woman Owned And Managed
- ≥90% Minority Employees
- Recycle Programs For E-waste, Plastics, And All Regular Waste
- Wet Scrubber System Surpasses Emission Standards Allowing Bay Area Air Quality
 Management District To Grant Permit Exemption
- Clean Harbors Collects All Hazardous Materials In Lieu Of Neutralizing In House And Eliminating Through The POTW System



NSi Summary

- NanoSILICON, Inc. is interested in becoming your wafer vendor, with the focus on following your lead.
- NanoSILICON, Inc. is a service driven entity and understands today's high demand to remain flexible with our customers.
- We will be price competitive and will not compromise our quality standards for the sake of market share.
- Thank you for your time. We look forward to working with you.



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