

Nelson Steel

Consulting & Technology Group

A Division of Samuel Manu-Tech Inc.



Research & Development Projects In Action

1. Modular System Design

- Utilizes a virtual 3D software package to assist with the engineering our drawings
- Benefits customers by reducing engineering and installation turnaround times
- A training aid for customers to view a 3D version of the process section before it is built
- Highlights interferences during the engineering phase
- Produces an accurate Bill of Materials and ISO drawings for piping spool pieces
- Incorporated into our engineering as a standard system for all future projects

2. Automatic Acid Injection System

- A proactive system to maintain stable acid concentrations without instrumentation
- Designed to remove operator input required to adjust the acid settings of the system
- Provides tighter acid concentration control, thereby reducing acid consumption
- Developed and operational on in-house Nelson Steel process lines

3. Automatic Rinse Water Injection System

- Designed to continuously monitor the quality of rinse water without operator input
- Reduces water volumes required to lower chloride concentrations below critical levels
- Developed and operational on in-house Nelson Steel process lines

4. Air Blow-Off System

- Designed to remove residual water from the strip as it exits the rinse
- Reduces power consumption as compared to conventional air knife drying systems
- Developed and operational on in-house Nelson Steel process lines

5. Custom FRP Fume Cover System Retrofits

- Custom engineered solutions to adapt to any pickling line design
- This relatively low cost addition will save on acid and gas consumption
- Greatly reduces environmental HCl emissions from the stack

Let us put our Research & Development Projects in action for you!
Please feel free to contact us to obtain more details.

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