

company case study

State of the Art Electroplating Facilities at Coin Manufacturer

In a highly competitive market for plated coin products, there arose a necessity to establish electroplating facilities that were not only lean and cutting-edge but also adhered to the highest quality, health, and safety standards.

Drawing on my extensive background in Industrial Process Engineering, strong leadership abilities, and training in world-class project management methodologies, I delivered innovative solutions that guaranteed over ten years of dependable production, employing best practices and stringent engineering compliance.

CHALLENGES

- **Competitive Market**

With the global decline in the use of coin products, the plant required a distinctive layout to ensure efficient operations and optimize overhead costs.

- **Compliance**

Incorporating potentially hazardous processes in an Upper Tier COMAH site, the plant necessitated thorough engineering compliance review during the design phase.

- **Cross Functional Management**

With the Client, Engineering Integrator, and Plant Builder functioning across multiple locations, we faced several challenging logistical hurdles to address.

APPROACH

- Applying effective design techniques such as Hazard Studies, Layer of Protection Analysis (LOPA), Risk Assessments, and Engineering Compliance Reviews.
- Showcasing strong, client-centered project and program management through outstanding leadership.
- Utilizing 25 years of electroplating expertise to integrate valuable lessons into the final design.
- Employing established project management methodologies to ensure adherence to quality, budget, and timeline.

RESULTS

- **Lean Operation**

With its distinctive layout, the plant seamlessly integrated into both upstream and downstream operations.

- **State of the art Automation**

The plant functioned in a way that guaranteed routine maintenance activities did not interfere with overall equipment effectiveness (OEE).

- **Safe Plant Operation**

Thanks to robust design tools, the plant received approval from relevant authorities, confirming its suitability for operation in an upper-tier COMAH site.

- **Proven Effectiveness**

The plants operated for over a decade without experiencing any significant incidents or operational losses.

CONCLUSION

Through a commitment to project and operational excellence, supported by strong compliance management and design optimization techniques, the plants have significantly enhanced the coin blank plating capabilities of the manufacturer.