

SAFE, RELIABLE & ON SCHEDULE SOLUTIONS

The TCS Advantage

- TCS provides tools, processes, standards and training to help build a road map for our Clients to consistently execute turnarounds on budget and on schedule.
- TCS will provide our Turnaround Database Planning Software at no additional cost to our Clients if utilizing our services. Programming time will be billed on a "Time & Material" basis for any revisions requested and approved by our Clients.
- For "Full Service" clients, we offer self-assessments of our turnaround teams. This practice allows us to ensure we are delivering the highest quality consistent with our mission and values. These assessments are performed at no additional cost to the client.
- TCS employs top tier talent that is trained in utilizing common practices and procedures across multiple clients. This versatility allows TCS to better position employees between customers who use our full services.
- Utilizing the Turnaround Database and our "Kit on Demand" process has TCS leading the industry in material management.
- TCS has the best Logistics planning and coordination processes in the industry. Developing and executing the logistics plan utilizing TCS' processes maximizes tool time for direct crafts, directly increasing productivity.
- TCS is primarily a Turnaround Management service provider and does not perform any construction work. Since there is no need to include small tools, consumables, installed products insurance, etc. TCS can offer a much lower mark-up.

OUR MISSION

To Plan and Execute Successful Projects Through Innovative Industry Best Practices to Maximize Operational Reliability for Our Clients.

OUR CORE VALUES

Success - Success is Measured in the Value we Create for our Customers.

Quality - We Have a Healthy Dissatisfaction with Mediocrity.

Innovation - We Foster Innovation by Open Communication, Listening to all Ideas and Viewpoints.

Excellence - We Create a Culture of Excellence Built on Providing each Client with Safe, Reliable and on Schedule Solutions.

Talent - We Attract, Recruit and Train the Finest People in the Industry.

Accountability - We Hold Ourselves Accountable to Meet Business Needs, Improve our Systems and Help Others Improve their Effectiveness.

Turnaround, New Construction & Recommissioning Services

PLANNING & SCHEDULING

The TCS planning and scheduling team is our largest division, filled with the most experienced personnel in their respective disciplines. Positions provided range from top level Planning and Scheduling Managers that can manage all aspects of the front-end loading for any project down to discipline level planners for piping, fixed equipment, instrumentation, high voltage electrical and rotating equipment.

PROJECT MANAGEMENT & COORDINATION

Our team of project managers and coordinators are highly experienced professionals that specialize in an array of disciplines to fit your resource needs from Project Managers to discipline coordinators. The key functions being management and coordination on behalf of the owner.

SCOPE & BUDGET DEVELOPMENT

TCS can consult or directly manage any scope collection, approval, and risk ranking needs during the initial phases of your projects to include piping, fixed equipment, instrumentation, high voltage electrical and rotating equipment. We also provide the resources to develop both the long-range budget ($\pm 30\%$) as well as the control budget ($\pm 10\%$) based on the completed schedule and staffing plans for any type of project.

SOFTWARE TOOLS & PROCESSES

Our in-house developers and system engineers can provide or develop client specific software tools that bring continuity and efficiency to the management of your projects. The software tools range from multi-user secured databases and mobile applications to simple forms. TCS has an extensive library of documented processes and standards for all aspects of turnaround management, these documents can be tailored to the client's specific needs.

MATERIAL MANAGEMENT

Our material management services are unparalleled in the industry. The quality and work ethic within this division of TCS is outstanding and when used in conjunction with our planning software and our "Kit on Demand" approach to material we are second to none.

MECHANICAL INTEGRITY COORDINATION & INSPECTIONS

The TCS MI/QA team is staffed by some of the most experienced and professional API Inspection consultants in the industry. We work as an Owner/User resource providing Mechanical Integrity solutions by assisting clients with in-depth corrosion studies, equipment history reviews, and all other API support for Turnaround planning and coordination.



Highly
specialized
employees

CONSULTING

TCS provides consulting services in all areas and phases of turnaround, new construction, and recommissioning projects.

TURNAROUND READINESS ASSESSMENT

TCS performs readiness assessments on all phases of turnarounds. We use a four phased approach to deliver both immediate and long-term actionable items to improve the success and repeatability of projects.

FACILITY RESTART ASSESSMENT

TCS performs restart assessments on idled facilities that are being considered for recommissioning. A Typical assessment includes but is not limited to scope development and validation, mechanical integrity equipment and piping assessments, conceptual or detailed schedule, conceptual or detailed TIC estimate, etc.

SPECIALTY PLANNING & COORDINATION

TCS provides resources to scope, plan or coordinate the following areas:

- Logistics
- Health, Safety & Environmental
- Permit Writers
- Chemical Cleaning
- Procurement
- Temporary Power
- Designers

On-stream Inspection, Due Diligence & Maintenance Services

ON-STREAM API & NDT

TCS supports Client On-Stream Inspection Departments by providing API 510, 570 and 653 Nested Inspection personnel. TCS also provides certified and professional Level II inspection technicians qualified per the TCS NDT Written Practice and Procedures for UTT, UTS, MT, PT and PMI disciplines.

DUE DILIGENCE ASSESSMENTS -MERGERS, ACQUISITIONS & RESTARTS

TCS performs due diligence assessments for companies who are considering merger, acquisition or restart of refineries, petrochemicals, agrochemicals, pharmaceuticals, and precious metal processing facilities.

MI PROGRAM DEVELOPMENT AND IMPLEMENTATION

Routinely, more manufacturing facilities are either in the process of implementing Risk Based Inspection (RBI) programs or rebuilding existing or stagnant MI programs. Our MI/QA team works as an owner/user resource to provide development and implementation of new or rebuilt MI programs.

ROUTINE MAINTENANCE PLANNING

TCS provides personnel for routine maintenance planning services utilizing a variety of different CMMS programs including but not limited to SAP, Maximo, Avantis, etc.

TCS Turnaround Database

KEY FEATURES

- The database is free to clients using our services
- Multi-user level-security database
- Database can be tailored to client processes
- The database belongs to the client
- Input data is validated thru "Lookup" tables
- Scope can be appended to database from existing scope collection tools (SAP, Maximo, Excel, etc.)
- Integration of Primavera Data
- Bulk requisition of material leads to savings thru project pricing

SCOPE MANAGEMENT

- Scope collection, approval and prioritization
- Manage scope changes (additions, deletions & discovery)
- Extensive coding and reporting capabilities
- Append repetitive scope to the next scheduled turnaround to save on future planning cost/time

SCOPE PLANNING / SCHEDULING

- Track & report MOC requirements
- Track & report mechanical and AEI design requirements
- Plan materials for individual jobs by pipe specification to minimize mistakes.
- Track & Report scope planning and scheduling progress
- Attach external documents that relate to a specific scope item (photographs, drawings, P&ID's, Spec Sheets, etc.)

SCOPE REPORTING

- Intuitive report module with extensive filtering capability
- Save reports with filter criteria for future use or batch printing
- Scope Closure/Completion, Pre-Commissioning and Commissioning forms are built in
- Multiple canned reports are available and additional reports can be easily added

PRIMAVERA INTEGRATION

- Primavera data is imported into the turnaround database
- The database is set up to perform code checking for discrepancies in Primavera
- Database reports are used to validate scope item plans
- The database is used to run shift reports and update progress allowing more time for schedule maintenance

ADDITIONAL DATABASE MODULES

- Scope Change Request
- Material Purchasing / Expediting
- Material Surplus Inventory
- Repairable Tracking & Reporting
- Scope Item Closure / Completion & Pre-Commissioning
- Scaffold Planning
- Request for Information
- Specific Equipment Plans (SEP)
- Instrumentation & High Voltage Equipment Tracking
- Mobile Execution & Planning Tools



Vision / History / Growth

TCS VISION

To maximize reliability and safety for our clients by providing the top talent in our industry.



HISTORY

Founded in 2008 Turnaround Consulting Services (TCS) started as a turnaround project consulting firm. In 2011 TCS became an employer to provide full turnaround services to our clients. Since becoming an employer, TCS has helped our clients become industry leaders in project planning and execution. We have a history of success planning and executing turnaround, maintenance, capital and facility restart projects.

GROWTH

Turnaround Consulting Services' growth since 2011 is driven by the trust we have developed with our Clients that we will provide Safe, Reliable and On-Schedule Solutions to their turnaround and project needs.

DELIVERING QUALITY

Sustainable Goals

We are focused on building long-term relationships with our clients.

