

# SOLUTIONS



## CONTINUOUS IMPROVEMENT NETWORKING

CruzAlta consultants participate in client internal TA and TA Ops networks to introduce and describe industry practices.



## CRUZALTA'S PREPAREDNESS EVALUATION (CAPE)

Time-based TA assurance methodology includes a fully integrated deep dive into TA Operations readiness. Output includes detailed gap closure action planning.



## OPERATIONS COACHING

Experienced TA Operations specialists work alongside your team to coach, collaborate, and contribute into the development of a detailed TA Operations plan and provide sustainable TA operations capability.



## TA MANAGEMENT COACHING

Augment TA and site leadership experience by "surgically" leveraging the deep, practical, relevant experience of our consultants to provide mentoring and guidance on specific TA challenges.



## TA STRATEGY AND STEERING TEAM ENABLEMENT

Train on the groundwork and define expectations for the TA Strategy and Steering Teams, clarify the shared mission, define critical leadership behaviors, and establish a healthy rhythm of engagement.



## PROCESS FACILITIES MANAGEMENT & DESIGN

Design innovative permanent and temporary mechanical facilities to expeditiously process the streams to the correct closed system and satisfy new and changing environmental regulations.



## TURNAROUND OPERATIONS READINESS ASSISTANCE

Laser-focused on the TA "bookends" (shutdown and startup), this is a deep dive into the TA operations strategy, plans, procedures, and operations staffing.



## TURNAROUND SHUTDOWN AND STARTUP OPTIMIZATION

Identify and overcome constraints in Shutdown and Startup plans, and quantify required operations manpower to deliver the stated premise duration.

Work closely with lead operations and technical teams to establish a comprehensive and adaptable CSU program that includes detailed contingency planning and mitigation.



## TURNAROUND OPERATIONS COORDINATION AND FIELD ADVISORY

Operations specialists function as highly invested, independent advisors to guide and adjust the shutdown phase and mitigate startup threats as a complement to the TA operations team.



## TURNAROUND WORK PROCESS MAPPING

From a fully populated industry milestone plan, we apply value stream improvement to adapt the TA Preparation workflow to the unique facility requirements.



## EQUIPMENT VALIDATION & GAS TESTING

Utilize portable GC technology to enable a condition-based shutdown and real time identification and troubleshooting of recontamination events.



## SHUTDOWN PERFORMANCE BENCHMARKING

Using the CruzAlta shutdown database and analytics, the CruzAlta team provides performance benchmarks for the shutdown to drive predictability and competitiveness.

# CRUZALTA

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