

# Rayker

## Mechanical Services, LLC

### Comprehensive Management of Turn-Key Services:

#### Outage Execution

RAYKER MECHANICAL SERVICES, (Rayker), provides for the overall management of the scope of work you have planned for your equipment and associated auxiliary systems. We not only provide the disassembly and reassembly of the equipment, we also perform a detailed and thorough inspection of each component. Evaluation of the data gathered from these inspections allows the appropriate repairs and repair methods to be determined. Rayker will manage the necessary repairs for your company either by mobilization of the necessary equipment and personnel to your site to complete the repairs or through cooperation with one of Rayker approved vendor relationships. Rayker can assist you with the procurement and or reverse engineering of parts on an as needed basis. Detailed engineering analysis of your steam turbine components including rerate of, or modifications to your steam path or associated systems are also available to our customers.



#### Reliable Line of Communication

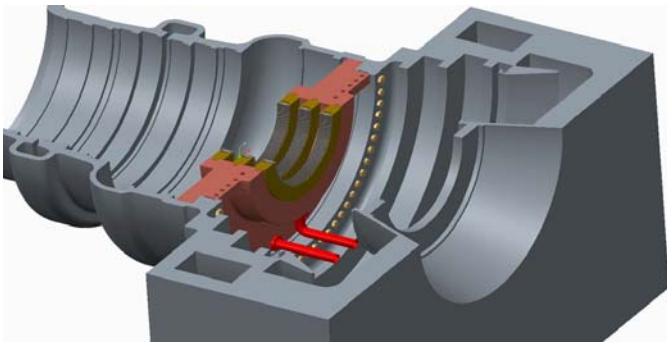
Rayker provides you with a line of communication with a technical representative of our company that has been working in the industry for over 20 years. Our representative will always be ready to answer your technical questions. Your communication can be directed to us either via email at [raymond@raykermechanicalservices.com](mailto:raymond@raykermechanicalservices.com) or by phone at 573-253-8611.



#### Industry Professionals

Rayker employees are professionals in the industry that understand the processes required for your equipment to operate as designed. Our process of inspection and evaluation provides us with the information needed to determine which components need replacement or refurbishment in order to return them to design criteria.

Abnormal conditions noted through these inspections require additional attention. Mode of failure and root cause analysis principles will be applied to understand the reasons behind the noted abnormalities. When deemed necessary, Rayker can provide for detailed engineering analysis of components to determine cause of failure and development of an engineered solution to your issues. These evaluation processes are geared toward equipment reliability and elimination of reoccurring equipment failures.



## Recipe for Success

RAYKER MECHANICAL SERVICES is a company that understands the keys for success in our industry. Customer satisfaction is the key to building strong relationships with our customers. It is our goal to build a strong, long term relationship that is mutually beneficial to both RAYKER MECHANICAL SERVICES and to our customers. The owner of our company has more than 20 years of experience in the power generation industry and understands the underlying components required for success.

Communication is a critical component for both parties to remain squarely focused on the same goals. Rayker begins that communication process, ideally before a proposal is requested. Assisting with the development of a work scope that is tailored to the equipment in question and also fits the needs of our customer is key to a successful outage. Rayker can assist with this process as part of our outage planning services.

Communication continues throughout the process beginning with the receipt of the purchase order and continuing through the outage in the form of daily status reports that include technical information and path forward recommendations. Daily status meetings with the customer are critical to “staying on the same page” and achieving a successful outage. Finally an exit interview upon the successful completion of the outage assures that critical “lessons learned” are captured and integrated into future outage planning.

Safety is paramount to Rayker and has been engrained in our employees as a culture that is to be nurtured through constant vigilance. Our detailed safety plan includes daily tailgate safety meetings tailored to the days activities, comprehensive Job Safety Analysis documentation for each task assigned and a management team who is dedicated and focused on a safe environment for our workers and the safe execution of all activities.

Quality is a result of Rayker detailed data gathering processes and formal data sheets that are displayed in a manner that allow for easy review of the data and also provide our technicians with guidance as to which measurement are critical to the evaluation process and ensures a quality end result for our customers.

Our management members and work force are all valuable members of our team. Many have been working together for years. All of our team members provide a value to our customers through an understanding of the work being performed, an inherent desire to perform the work safely, in an efficient and professional manner which ensures a quality end result for our customers.

## Steam Path Upgrades

Rayker understands that steam turbine design technology is constantly evolving and we keep up with the new technologies that can improve the operation, power output and efficiency of your unit. Rayker has the expertise to assist you with understanding why these changes have taken place. We can assist you with development and implementation of a plan that will help you maximize the efficiency of your equipment. Rayker can support you from beginning to end through the evaluation of your existing steam path, design of the required modifications, fabrication and installation of the necessary components needed for your equipment to perform at its maximum efficiency



## Operational Upgrades

Rayker can assist you with the design, procurement and installation of system upgrades for your equipment such as control systems upgrades, vibration monitoring equipment upgrades, the installation of predictive maintenance apparatus for online analysis of generator health. Rayker can review your current operational standards and if necessary make recommendations for changes that will positively affect the health of your equipment.

**Safety, Efficiency and Reliability is our Purpose.**