



INDUSTRIES SERVED

AEROSPACE
 ARCHITECTURAL
 AUTOMOTIVE
 BOILERS & PRESSURE VESSELS
 BRIDGES
 CONSTRUCTION
 DEFENCE
 ENERGY
 ENVIRONMENTAL
 HYDRO ELECTRIC
 LOCOMOTIVE
 LIFTING DEVICES
 MACHINERY
 MACHINE SHOPS
 MARINE
 MATERIALS HANDLING
 MINING
 NUCLEAR
 OIL AND GAS
 PROCESS EQUIPMENT
 PULP & PAPER
 STRUCTURAL STEEL
 TRANSPORTATION

INDUSTRY LEADERS

SKC's main focus and drive is in the field of Welding Engineering and we recognized by industry as leaders in this discipline. We have considerable expertise in the design of welded joints for both mechanical and structural applications in Steel, Aluminum and other Non-ferrous alloys. Typical projects we work on include: Penstocks, Tunnels, Bridges, Pedestrian walkways, Marine structures, Marine vessels, Pressure vessels, Pressure piping, API storage tanks, Process equipment, Free standing structures and Towers.

We offer welding consultation based on over 50 combined years of practical welding experience. We have the knowledge and understanding to quickly get to the root of your welding problems. We supply practical solutions based on real world experience to ensure your welding operations are running at maximum efficiency. We specialize in the development of detailed technical work instructions to supplement welding procedures for critical joints.

MECHANICAL DRAFTING & DESIGN

Our detailing and designs are performed utilizing state of the art computer equipment and 2D/ 3D Software. We have over ten years of experience in drafting and Solid Modeling using AutoCAD and Inventor, and are current with various codes and standards applicable to your needs. Our expertise includes: heavy steel fabrication, lifting gear, mining equipment, platforms, cages, pressure vessels and tools and fixtures.

REFIT & REPAIR SCHEMES

We provide concepts, work instructions and as-built drawings for the refit and repair of welded structures and mechanical components. We have considerable experience with marine structures and vessels, cranes and lifting devices, trains and railways, welded platforms and structures. We can provide certification of repaired components as have being returned to their OEM condition, or better.

FAILURE ANALYSIS

We are expert in failure analysis and determining root cause of malfunction of welded joints. This work is supported by our materials testing facility.

FITNESS FOR SERVICE

We are skilled in the application of fracture mechanics for fitness for service calculations. If refit or repair work is required we can provide



RECENT PROJECTS

- Welding repair scheme for a cast rudder on a military vessel
- Fracture mechanics, lifetime prediction and crack propagation calculations for Copper Nickel piping
- Repair scheme for a large tunnel boring machine
- Overlay repair procedure for a corroded LNG storage tank
- Underwater repair procedure for a dam gate
- Distortion & residual stress calculations for a radar mounting system
- Overlay repair procedure for an Aluminum hull
- Upgrades & commissioning of gold mining equipment
- Failure analysis on transmission tower collapse
- Weld joint design & tie in for a hydroelectric penstock project



an Appplus+ Company