



# Systems Safety

***Team EVC safety and occupational health solutions experts take your program's hazard control to the next level.***

Engineering and safety should go hand-in-hand. As an affiliate of Concurrent Technologies Corporation (CTC), Enterprise Ventures Corporation (EVC) brings together highly-skilled engineers and experienced safety professionals from our family of companies to assist you in meeting your goals. EVC and experts from CTC (collectively "Team EVC") will help you develop, modify, and maintain your organization's systems, including safety considerations to avoid costly mishaps and injuries.



Team EVC brings over 25 years of providing engineering solutions for the Federal Government and commercial industry and over 10 years delivering comprehensive safety and occupational health services. We deliver safety solutions spanning policy, procedures, and technology across the product lifecycle to include identification of safety requirements, analysis of potential design hazards, development of safety features and procedures, and verification of product safety. Team EVC expertise includes environmental know-how for integration into a total Systems Safety solution.

## Our Capabilities

Team EVC will help ensure your system has safety requirements and solutions integrated in design, development, testing, operations, and retirement. Team EVC brings a broad mix of safety professionals and engineering disciplines together, having in-depth knowledge of the policies, best practices, and innovation to meet the safety needs for acquisition decision makers and, more importantly, your users. Our Systems Safety capabilities include:

- Failure Analysis—with particular strengths in Machine/System failures
- Preliminary Hazard Analysis
- Failure Mode and Effects Analysis
- Fault Tree Analysis
- Hazard and Operability Studies
- Mishap Investigation
- Ergonomics, and user-interface expertise
- Human Failure Analysis
- Software Safety
- Electrical Safety
- Process Safety Management
- Safety Engineering

## Case Studies

### Carriage, Stream, Tow, and Recovery System (CSTRS)

CSTRS is the deployment system designed by CTC for use with the MH-60S helicopter to support a variety of sensors that seek and neutralize maritime mine threats. CTC has served as the prime contractor on the U.S. Navy Organic Airborne Mine Countermeasures CSTRS program since the program's inception in 1999. EVC currently serves as the prime contractor for the manufacture of CSTRS units, the producer of all spare parts, and the contractor performing all repair work on existing systems. Initiated as a feasibility study, CSTRS has grown into a highly-successful, major program, due in large part to our innovative initial design concepts that integrated safety aspects through every step of development. Team EVC continues to support the CSTRS program from engineering refinements through logistics and training support, including providing both onsite and distance support for testing conducted in a variety of locations, in addition to the manufacturing of full CSTRS units and related Spares and Repairs.

### ACES Ejection Seat

The military's advanced concept ejection seat, ACES II®, is one of the most successful aircrew escape systems in U.S. Air Force history and is credited with saving more than 456 lives since it was introduced in 1976. With more than 8,000 seats delivered to date, the ACES II is currently used on F-15, F-16, B-1B, B-2, A-10, F-117 and F-22 aircraft. Using the strengths of the ACES II as a foundation, Goodrich Aircraft Interiors and CTC developed the next-generation ACES 5 seat for the F-35 Joint Strike Fighter (JSF). The new seat was optimized to enhance safety and ergonomics for aircrew, reduce maintenance downtime, and improve structural performance at a reduced system weight—all within a challenging time constraint of 14 months!

## Professional Staff

Team EVC gives you access to a high-caliber staff of professionals, including:

- Certified Safety Professionals
- Certified Industrial Hygienists
- Graduate Safety Professionals
- Occupational Health and Safety Technologists
- Systems Engineers
- Electrical and Mechanical Engineers
- Environmental and Chemical Engineers
- Metallurgical and Materials Engineers

**Contact the Team EVC safety and occupational health solutions experts today and take your program's hazard control to the next level.**

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