



Current Initiatives

Supporting the 9/11 Memorial

As our security enforcement and habits continue to grow, one must never forget a major reason of why we are forced to do so: the September 11 attacks of 2001. REGAL is extremely honored to be involved with and providing support to the National September 11 Memorial & Museum.

(cont'd on page 3)

REGAL Brings Stadium Security to the NFL

REGAL is pleased to announce that through a DHS S&T initiative, REGAL SportEvac Simulation Tool will be, once again, deployed. This program will involve five (5) NFL Stadiums and will support the emergency plans surrounding evacuations. REGAL SportEvac will support officials from the National Football League (NFL), the Department of Homeland Security (DHS), and local Emergency Managers in preparing and planning for the Stadium Evacuations.



REGAL is proud to be associated with the National Football League and its initiatives to enhance stadium security

The program is being sponsored by the Infrastructure and Geophysical Division (IGD) of DHS Science & Technology. The IGD's mission is to "improve and increase the nation's preparedness for and response to natural and man-made threats through superior situational awareness, emergency response capabilities, and critical infrastructure protection." Part of the IGD's objectives is to develop "technical solutions, modeling and simulation tools and reach back capabilities to improve federal, state, local, tribal, and private sector preparedness for and response to all-hazards events impacting the U.S. population and critical infrastructure." This project will enable emergency managers and first responders to use with the planning and preparation of NFL games as well as the upcoming Super Bowls.

REGAL's main role will be to evaluate several evacuation scenarios for each stadium utilizing the REGAL SportEvac. The Department of Homeland Security and the

Stadium Authorities will be supported by testing existing planned evacuation routes for the general public as well as VIP's. Ultimately the studies will focus on planned routes, pedestrian flow bottle necks, interactivity among evacuees and the impact of official personnel directing evacuees. All scenarios will be populated with the appropriate characteristics for different groups of people such as families, athletes, fans, media and tourists.

Additional beneficiaries of this program will include the First Responder Community as well as the Venues Emergency Managers. Many stadiums and sporting events incorporate local authorities and first responders into their events. With the results of this program, individuals involved will have the ability to facilitate additional discussions and become better prepared through training exercises. REGAL is excited to be a partner of this valuable program and is looking forward to assisting in securing America's Stadiums.

[Click here to learn more about REGAL SportEvac](#)

regal decision systems

Support & Exercises

Studying & Integrating Behavioral Dynamics

REGAL continues to work with several Academic Institutions, including Rutgers University, home of the Department of Homeland Security's Center of Excellence for Command, Control, and Interoperability Center for Advance Data Analysis (CCICADA). This Center focuses on both theoretical and applied research into novel computational and mathematical techniques for data analytics that address present and emerging threats to homeland security. Their overall mission involves providing powerful analytical tools and methods for information sharing, collaboration & decision support for a diverse workforce.

Due to nature of the complexities involved in human behavior, it is important for Emergency Managers and First Responder Communities to be familiar with prediction and best practices for management of crowd dynamics. One research team at Rutgers is focusing on and exploring ways to incorporate behavioral dynamics into the Evacuation Planning Tool (EPT). The Rutgers team will accumulate and analyze available published data on factors affecting individual and group behaviors under a diversity of threat scenarios. By determining which practical and psychological factors impact individuals in crowds, they are developing a small set of specific algorithms that depict how people react to an event and to each other during an incident. They are working to distill these results into streamlined recommendations for the inclusion of realistic behavioral algorithms into simulation scenarios and visual presentations.



This research will provide stadium security professionals and first responders with valuable insight into how large-scale crowd dynamics at large gatherings can emerge from individual behaviors. This collection of data will lead to recommendations for best practices based both on theoretical models and lessons learned from survivors of mass emergency evacuations. The information will ultimately support the development of operational guidelines in the preparation and management of emergency evacuations at major sporting events. It may also be useful to conduct proprietary security and first responder informational briefings in conjunction with the use of the REGAL SportEvac.

Seize the Power of Simulation Technology

Dedicated to Safety and Security

9/11 MEMORIAL

The Museum will be a dynamic 21st century institution, the authoritative source for an evolving understanding of the terrorist attacks of 9/11 and 1993.

REGAL develops model to support the 9/11 Memorial

As our security enforcement and habits continue to grow, one must never forget a major reason of why we are forced to do so: the September 11 attacks of 2001. With the passing of the ninth anniversary, construction continues at one of the most important sites in the world, REGAL is extremely honored to be involved with and providing support to the National September 11 Memorial & Museum.

For the past several years, REGAL has supported multiple government agencies in the design flow of facilities around the world. One of their core capabilities is to model and simulate designs in pre-construction planning. With that said, REGAL is proudly utilizing their skills and expertise by supporting the 9/11 Memorial Museum with the queuing and screening requirements for the museum. REGAL believes that this site is one of the most important landmarks in the nation, and will support its mission to make it one of the safest.

From the minute the guests enter the museum they will be a part of history. Aside from the site itself and a Memorial Exhibition dedicated to the 2,982 victims of the terror attacks of 2001 and February 26, 1993, artifacts on display include the "survivor stairs," the "last column," and the foundation footings of the original towers. REGAL is extremely proud to be a part of this historic event and invites everyone to learn and see more at www.national911memorial.org.



The 9/11 Memorial & Museum
Rendering by Squared Design Lab



The 9/11 Memorial & Museum at night
Rendering by Squared Design Lab

people & profiles

REGAL at the Forefront

Anthony Lotierzo Joins the REGAL Team



REGAL is pleased to welcome Anthony Lotierzo to the Military Support Division in California, MD.

This September, Anthony (Tony) Lotierzo began employment with Regal Decision Systems, Inc. as Director of Operations for REGAL's Military Support

Division. Tony has been a tremendous asset to REGAL in the short time since he arrived. Tony brings leadership and expertise to the team as well as program and project management skills, quality control, and logistics management. Tony will be an asset with mentoring and coaching REGAL employees as they take on more responsibilities supporting the U.S. Navy and Marine Corps under their Seaport-E contract.

Tony possesses knowledge and an extensive set of technical skills that take years to acquire. Retired from the United States Navy after serving 20 years, and working as a Project Coordinator for the Department of Homeland Security, Tony has demonstrated capabilities in strategic planning, program management, logistics, new technology and innovative support, training and education. REGAL is excited to have Tony as part of the team and looks forward to continued success within their Military Support Division.

Also In The Spotlight

REGAL is pleased to announce, they will be supporting HNTB Architectural firm with evaluating the impact of emergency situations and pedestrian flow inside two New York City subway stations.

REGAL will assist with conducting detailed analyses through modeling and simulation of the subway station. The analysis will study the impact on pedestrian flow during an emergency situation and will replicate pedestrian movement in and around the station so stakeholders may evaluate the consequences of a variety of "what-if" scenarios.



For more information, please contact Brian Schaedel, at bschaedel@regaldecision.com, or visit our website at www.regaldecision.com.



**1302 Concourse Drive
Suite 400
Linthicum, MD 21090
443-577-4222**

Seize the Power of Simulation Technology