



SCHOOL RISK AND RESPONSE MANAGEMENT SYSTEM

Implementation Status Report

North Carolina Department of Public Safety
North Carolina Emergency Management
Center for Safer Schools

February 1, 2016

Background

In 2014, the North Carolina Emergency Management (NCEM), working in concert with the NC Center for Safer Schools (CSS) and the Department of Public Instruction (DPI), began a statewide initiative to provide valuable data, tools and applications to assist school officials, law enforcement officers, first responders, and emergency managers in preparing for and responding to hazards and threats at all North Carolina educational facilities. The initiative consists of two phases, where Phase 1 covers all public K-12 schools, and Phase 2 incorporates higher education institutions, community colleges and state supported universities.

The 2015 General Assembly passed Session Law 2015-241, Section 8.26 establishing the School Risk and Response Management System (SRRMS). Section 8.26 defined the North Carolina Emergency Management as the lead state agency for school risk management and directed it to work in tandem with the Center for Safer Schools, the Department of Public Instruction, and the State 911-Board to efficiently implement and maintain the SRRMS. Section 8.26 also directed that the Department of Public Safety, North Carolina Emergency Management (NCEM) and Center for Safer Schools (CSS) submit an implementation status report on the School Risk and Response Management System (SRRMS), and provide an anticipated annual cost to operate and maintain the system

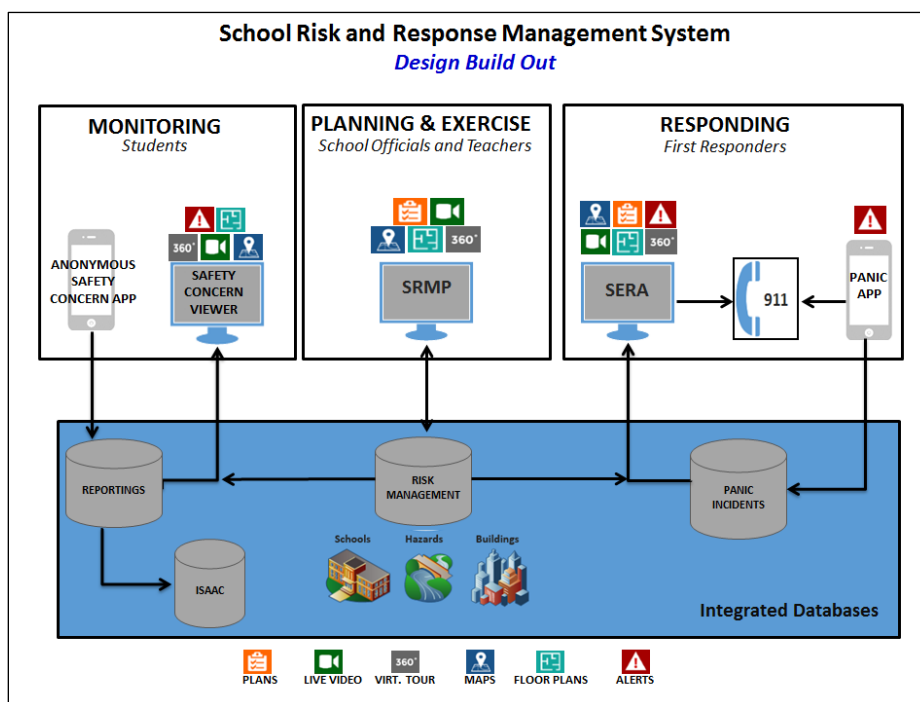


Fig. 1 School Risk and Response Management System (SRRMS) – Build Out

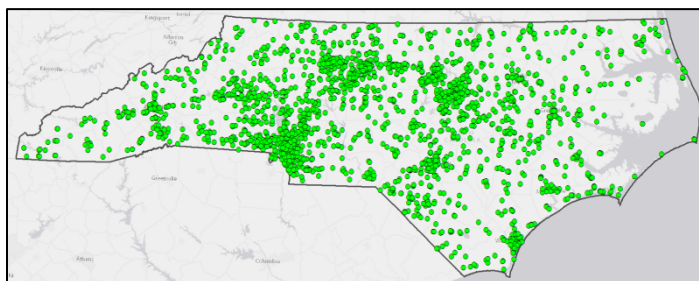
The SRRMS has three main components: monitoring; planning and exercise; and responding (see *graphic*). These three components are supported by the following data; applications; procedures; and, products:

- School Facility Schematic Diagrams
- School Risk Management Plan (SRMP) Application
- School Risk Management Plans
- School Emergency Response Application (SERA)
- Anonymous Tip Line / Monitoring application
- Statewide Panic Alarm System
- School-wide Table Top Exercises / Drills

This report provides the status of implementation for each of these components and the anticipated annual cost to operate and maintain the system.

School Facility Schematic Diagrams - Status

A core component to the SRRMS is the efficient digital display of facility floor plans and assets internal and external to the facility. To date, the acquisition of digital floor plan schematics for all K-12 school administrative units across the State is 100% complete. Facility floor plan schematics have been collected, digitized, and incorporated into the SRRMS database for 2,288 school locations; including 12,564

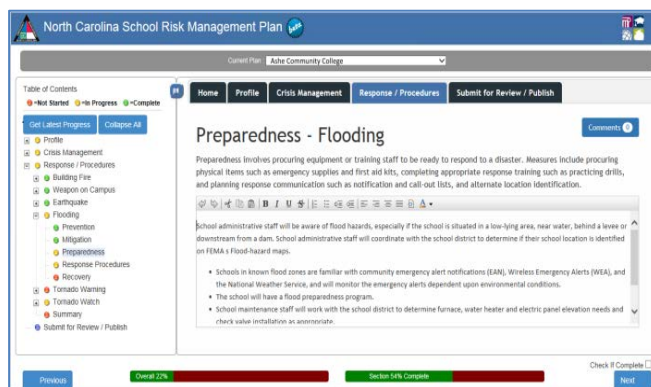


Points represent K-12 school where data was collected and incorporated into SRRMS.

buildings; and, 14,415 floors. At present, 185,567 internal and external school assets have been spatially identified internal and external to these facilities. As schools prepare School Risk Management Plans (SRMPs), it is anticipated that additional assets will be added to the system. In 2016, NCEM will be coordinating with higher education institutions, including community colleges and state supported universities to collect the necessary campus asset information needed to integrate campuses into the various applications. NCEM will continue to work closely with counties to receive and incorporate any school facility changes and or additions.

School Risk Management Planning (SRMP) application – Status

Session Law 2015-241, Section 8.26 requires each school facility to develop a School Risk Management Plan (SRMP). A SRMP documents the pertinent data and information regarding: contacts, vulnerabilities, communications, and response and recovery procedures. To facilitate a uniform and efficient process and plan, NCEM has constructed a School Risk Management Plan tool / application. NCEM is currently conducting stakeholder reviews and user beta testing for the SRMP. It is anticipated that the application will go into production the middle of March 2016. NCEM will begin holding training and outreach sessions with each county's public K-12 school administrators and their staff to step through the features and use of this application.



SRMP Application

School Risk Management Plans – Status

Beginning spring 2016, NCEM will facilitate and conduct joint and site specific outreach and hands-on technical support for public K-12 school administrative units in the generation of first generation School Risk Management Plans (SRMPs). The objectives of these meetings are to: (1) introduce and train on the School Risk Management Plan application; (2) introduce the planning process surrounding the SRMP development; and (3) provide hands-on technical assistance is constructing SRMPs. In addition, NCEM is currently preparing training videos and online tutorials to assist school officials in the development of these documents.

School Emergency Response Application (SERA) – Status

The School Emergency Response Application (SERA) is the core response component of the SRRMS. This secure application provides first responders, law enforcement, and emergency managers with pertinent data, information and displays associated with the facility, population, vulnerabilities and assets necessary to respond quickly and appropriately. Information is filtered according to roles defined in the NCEM active directory where first responders are assigned schools within their response district. The site works on laptops and electronic devices including smartphones and tablets. The SERA application has been constructed and is currently undergoing internal testing. NCEM will be conducting external stakeholder testing of the application in spring 2016. In addition, Software developers are working with the North Carolina Department of Information Technology (DIT) to leverage the NCID System and Model 2. This will allow for secure credential access for law enforcement, first responders, and emergency managers using existing databases. The SERA application is expected to be in production by late May 2016.



SERA Application

Anonymous Safety Tip Line / Monitoring – Status

SPK UP NC is the anonymous safety monitoring component of the SRRMS. At the present time, the application is being implement in a select number of school districts of varying populations to pilot the project and work out any issues with training, marketing, and the application before offering it statewide. Collaboration with the school districts of Avery County Schools, Johnston County Schools, Lenoir County Schools, Macon County Schools, and Winston-Salem / Forsyth Schools has been ongoing to develop this product specifically for the students of North Carolina. It is anticipated that Iredell County Schools will be added to the pilot this school year. Avery, Macon, and Lenoir Counties have been through the training, testing, and engaging student phases and are currently receiving live student tips. Forsyth and Johnson counties will be training February 2016 and are expected to begin receiving live student tips in March 2016. Iredell County should be trained by early April 2016, and begin to receive live student tips soon thereafter. This project is slated for statewide availability in the 2016-2017 school years if funding permits.



Statewide Panic Alarm System – Status

The Statewide Panic Alarm System, as defined in "§ 115C-105.51(c), is a response component of the SRRMS that launches real-time 911 messaging to public safety answering points regarding internal and external risk to the school population, school building, and school-related activities. NCEM, in concert with the 911-Board, has held several stakeholder meetings with county 911-PSAP dispatchers and officials to gather the flow process of calls and the functional requirements of PSAPs for such calls. NCEM will be holding several county stakeholder meetings in spring 2016 to further gather process and functional requirements. Following this analysis, NCEM will query industry on software that supports these functional requirements. NCEM will perform pilots during the fall 2016 to assess software capability.

Higher Education Risk and Response Management – Status

Due in part to safety incidents that have occurred on higher education institution campuses, NCEM has initiated Phase 2 of the SRRMS. The objectives of Phase 2 are to:

- Collect schematic and asset information for all higher education facilities, statewide;
- Incorporate the higher education facility information into the School Emergency Response Application (SERA) website; and
- Facilitate the efficient generation of digital Campus Risk Management Plans (CRMPs), building upon the suite of tools and database designs from the first phase.

Through 2015 Homeland Security Grant funding, NCEM has begun working with the Community College System Office and the University of North Carolina to implement the Phase 2 objectives. At the present time, 20 of the 58 Community Colleges are participating and have begun transferring their building floor plan schematics to NCEM. NCEM has been working with UNC – General Administration to identify existing campus building space allocation data that can be leveraged for this application. NCEM is working with UNC – General Administration to facilitate and identify pilot campuses.

SRRMS – Anticipated Annual Operations and Maintenance Cost

The current anticipated cost for operations and maintenance of the SRRMS is listed in the below table. The total cost below supports 5.0 FTEs and their daily operations. The required FTEs include: 1 GIS Analyst; 1 Programmer; 1 IT Analyst; and, 2 Planners. The total cost also supports the statewide software acquisition and maintenance for the SPK UP NC.

	FTE	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Internal Personnel	5.00	\$543,809	\$543,809	\$543,809	\$543,809	\$543,809
Operations	*	\$65,194	\$65,194	\$65,194	\$65,194	\$65,194
Software Maintenance	*	\$958,670	\$771,600	\$771,600	\$771,600	\$771,600
Total Requirements	5.00	\$1,567,673	\$1,380,603	\$1,380,603	\$1,380,603	\$1,380,603

It should be noted that the following items, while necessary, are not included in this total due to being one-time, non-recurring expenses. Estimates for items 1-3 are being finalized and should be ready by May 2016. Estimated cost for item #4 (Statewide Panic Alarm System) will be ready for review by July 2016.

1. Community College: Digital Schematics Data Acquisition (*One-Time Cost*);
2. State Supported Universities: Digital Schematics Data Acquisition (*One-Time Cost*);
3. Community College and University: School Risk Management Plan Generation (*One-Time Cost*);
4. Statewide Panic Alarm System: Software Acquisition and Maintenance (*One-Time and Recurring Cost*)

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