



Visual Intelligent Plans for Emergency Response

VIPER is a feature-rich, mission-centric, user-friendly desktop/tablet application intended to be utilized during fire events and fire response organization training evolutions as an electronic and intelligent fire plan and critical data center.

OVERVIEW

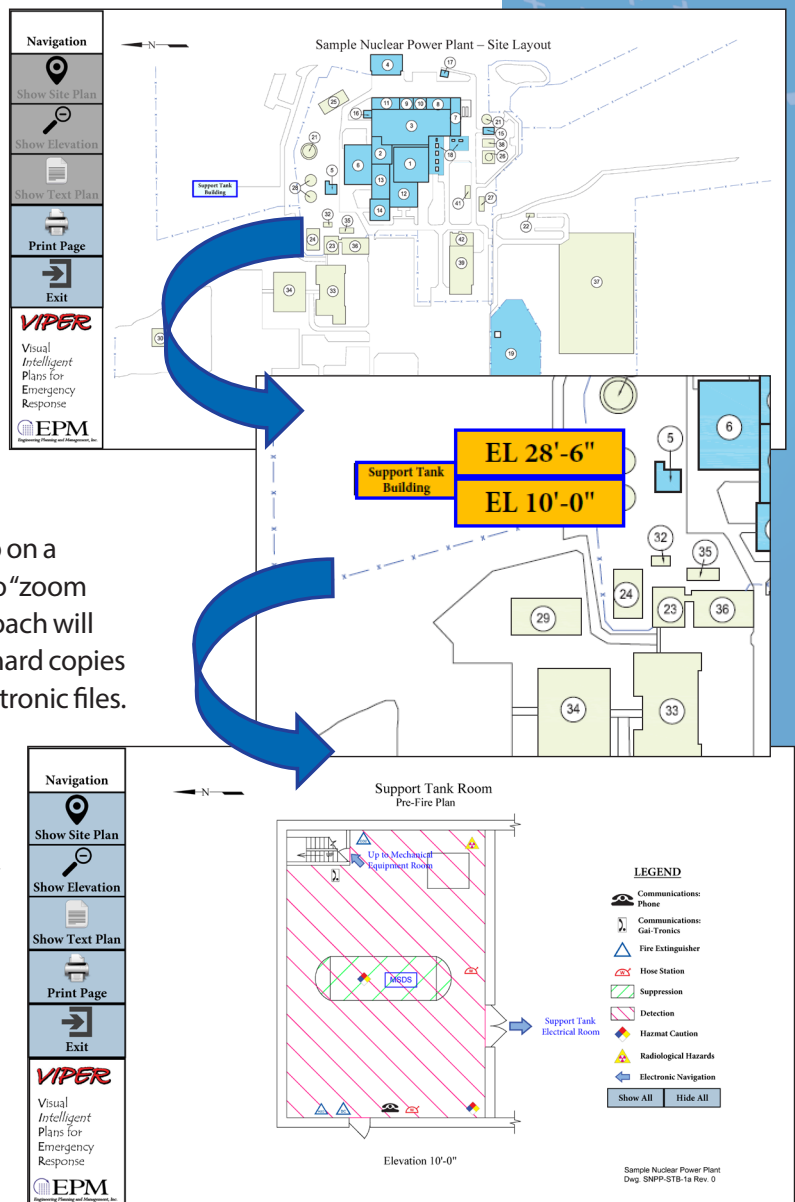
The fundamental goal of VIPER as a functional application is to get vital data to its user on demand and as quickly as possible. In times of high stress and multitasking, such as fire events, every second is critical to firefighter safety, occupant safety, property damage, and business interruption. Getting vital information to those that need it in a timely manner will result in safe and effective incident operations.

FUNCTIONS

VIPER is programmed to be as uncomplicated as possible, so the user can focus his or her attention on how to act based on given data, rather than focusing on how or where to find the data. The application uses a graphical “drill-down” approach, starting with an overhead view of the site and allowing the user to click or tap on a building, then an elevation, then a specific room, to “zoom in” to the emergency plan for that space. This approach will decrease the time usually lost to flipping through hard copies of pre-fire plans or scrolling through folders of electronic files.

Once a specific pre-fire plan is selected and is present on screen, the user can interact by clicking or tapping on icons within the graphic, which can be customized to show virtually any configuration, including:

- Suppression and Detection System Coverage and Details
- Communications Locations
- Emergency Phone Numbers
- Safety Data Sheets
- Electrical Equipment De-energization Locations
- Incident Command Posts
- High Rad and Low Dose Areas
- Ingress and Egress Routes



There is no “one-size-fits-all” solution to pre-fire planning, and accordingly this application is 100% customizable to suit any facility. In addition to information pertinent to a fire brigade, VIPER can also be a benefit to other users, such as those concerned with nuclear power plant security-related (NRC Order EA-02-026 Section B.5.b) equipment locations, nuclear power plant catastrophic event-related (Fukushima FLEX) contingency equipment locations, or nuclear power plant radiological release mitigation information.

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Pre-Fire Plan – Support Tank Room – Plan ID# PFP-STB-1a

GENERAL INFORMATION	BUILDING: SUPPORT TANK BUILDING	ELEVATION: 10'-0" EL	FIRE AREA: 72-5	FIRE ZONE(S): 664
	NUC/NON NUC SIDE: NON			
	FIRE RESISTANCE RATING: THE CEILING AND SOUTH WALL ARE 3-HOUR-RATED BARRIERS WITH SEALED PENETRATIONS. THE WEST, NORTH, AND EAST WALLS ARE NON-RATED EXTERIOR BARRIERS. THE FLOOR IS AT GRADE.			
SSD EQUIPMENT	SAFE SHUTDOWN EQUIPMENT			
	NONE			
	ALTERNATE SHUTDOWN EQUIPMENT			

This approach will allow the user to obtain the most pertinent information about an area as quickly as possible. It will also allow the user to filter on specific information regarding the room. If the user wants to view another room adjacent to the room currently being viewed, he or she can click on a link in any doorway to go to the pre-fire plan for the adjacent room. Similarly, clicking on a link in a stairwell will show the room at the other end of that stairwell.

A link is also available on each pre-fire plan to show a textual pre-fire plan, with instructions, cautions, available equipment, and other pertinent information. Both the textual and graphical information can be easily printed from within the application if hard copies are required for note-taking or carrying in the field.

INTENDED USERS

The primary users of this application are intended to be members and leaders of fire brigades and other fire response organizations, or control room operators and other individuals involved in fire response. VIPER is designed primarily for the nuclear power industry, but it can easily be adapted for non-nuclear power generation facilities, industrial complexes, health care facilities, schools, sports stadiums, concert venues, airports, and other large facilities. In some cases it can also be adapted for use by municipal fire departments in pre-planning fire events at specific buildings.

MORE INFORMATION

EPM offers initial VIPER application development and continuing VIPER update and support agreements to ensure your facility's plans are always accurate. Training on the use of VIPER is also available. Let EPM develop and support your site's pre-fire plans for the 21st century.

For more information on VIPER and associated services, contact, Tom Jutras, P.E. Vice President - Fire Protection Engineering and Risk Services, 508-532-7136 or thj@epm-inc.com

VIPER DEPLOYMENT

Desktop:

Windows 10
4 GB memory
1 GB disk*
Web Browsers: Chrome or Microsoft Edge Chromium version (if desired to use Microsoft Edge)

iPad

Safari using iOS v 13.3.1

Surface Tablet

Web Browsers: Chrome or Microsoft Edge Chromium version (if desired to use Microsoft Edge)

Android Tablet

Web Browsers: Chrome or Microsoft Edge Chromium version (if desired to use Microsoft Edge)

Server:

Windows server 2008, 2012 to host VIPER Virtual Machine
10 GB disk*
4 GB memory
Client Network compatible
Hyper-V disabled

* Disk storage will depend on the specific application deployment