



The Environmental Health & Safety Assistant (EHSA) was initially created for a large research facility that required a better way of tracking radioactive materials in the early 90's. This initial development has been added upon to include an array of applications that cover virtually every aspect Environmental Health & Safety.

On Site Systems is presently working with the University of Wyoming to roll out the 4<sup>th</sup> generation of our software. It includes a total rewrite of all previously developed web and client applications. The new applications are all web browser-based, which means that if you have access to the web and you have the approved security credentials you can access your data. In addition, this new technology allows for accessing the EHSA with any device that is linked to the web. This includes iPads, iPhones, Android Devices, Tablets, Notebooks, and regular PCs. Connectivity is available wherever you are at your facility.

In addition, we have made customizing your program incredibly easy. An approved admin can now change labeling on forms and remove fields that are not presently required. Remove them for now and easily add them back in the future. This eliminates the need to get a programmer involved in making the simple changes you need to tailor the program to your processes. Our clients have long been the predominant authors of this software. You tell us what made sense for your work flow and we developed the software to meet your requirements.

Below you'll find a description of the modules that the University of Wyoming is in the process of implementing, as well as some features that have been added since the last generation of our program was installed on campus. Within the program you'll also have access to video tutorials which will walk users through some of the more common processes in the new EHSA like inventory entry, waste pickup requests, and Principal Investigator (PI) self-inspections. This is in addition to the extensive written "help" section that is included.

**Health Physics Assistant** – a web-based data management program for users of Radioactive Material. The Health Physics Assistant is a unique computer software program designed to help the Radiation Safety Officer efficiently meet federal, state and local requirements for managing the safe use of radioactive materials, and also help improve the work flow of end-users. The HP Assistant allows for the documentation of your radio nuclide purchasing, receipt, real-time inventory, use, waste, disposal, training records, lab surveys and audits, equipment inventory, including calibration records and locations, personnel Dosimetry records including histories, as well as general information about your facility and its license.



One of the most exciting new features related to radiation safety is the Contamination Survey Mapping or Hot Mapping tool.

One of the most exciting new features related to radiation safety is the Contamination Survey Mapping or Hot Mapping capability. The HP Assistant can now document wipe locations, inspect the location for deficiencies or areas of concern, and link directly to the survey record LSC wipe results. In addition, this new application, allows for the pinpointing of wipe results that are not satisfactory or above acceptable levels. The user determines the levels that best fit their facility. Also, results can be entered in either cpm or dpm or have the system calculate the results in dpm. Action levels are logged in your own organization table thus you identify what level will require a re-wipe or clean up. The wipe locations turns red if your wipe results are over your organization limit. This signifies that you have exceeded the limits thus some action is required to rectify the area of concern.

**Chemical Safety Assistant** - The Chemical Safety Assistant is a data management program for users of Controlled Substances and Hazardous Chemicals. The Chemical Safety Assistant is a unique computer software program designed to help the Chemical Safety Officer (CSO) or Industrial Hygienist efficiently meet federal, state and local requirements for managing the safe use of Controlled Substances and Hazardous Chemicals. The CS Assistant allows for the documentation of your Controlled Substance purchasing, receipt, use, waste disposal, real-time inventory, training records, lab surveys and audits, instrument inventory, including calibration records and locations as well as general information about your facility. In addition, creating timely reports to National, State, and local agencies is a very important benefit. Reports like Homeland Security, Tier Reporting, Fire Zone Reporting, as well as local emergency response reporting saves EHS personnel a significant amount of time.

The bar coding feature allows users to automatically identify and capture all information about their inventory items. Bar coding also eliminates the need for users to update their inventory by hand, and allows receipt, storage and waste to all be coordinated within EHSA.

**Biological Safety Assistant** - The Biological Safety Application is a data management program for users of Biological Agents. The Biological Safety Assistant is a unique computer software program designed to help the Biological Safety Officer (BSO) efficiently meet federal, state and local requirements for managing the safe use of Select Agents and Biological materials. The BIO Assistant allows for the documentation of your biological material receipt, use, waste, disposal, real-time inventory, training records, lab surveys and audits, instrument inventory, including calibration records and locations as well as general information about your facility. Included as part of the application is the



ability to register permits and/or protocols for the use of Biological Agents. Our Web Questionnaire Builder, information to follow, allows for the creation of IBC, IACUC, and IRB protocols. These protocols are submitted for review and approval. Once approved, data elements entered during the entry and review process are auto-filled into the Permit Protocol. This eliminates the need to enter, review, update and re-enter the data entered via the submission process.

**Waste Pickup & Processing** – One of the goals of this generation of the EHSA was to provide a hub for users to track their inventory from cradle to grave. The Radiation, Chemical, and Biological Safety Assistant modules make tracking inventory and usage much simpler for PI's and lab workers, and the Waste Pickup & Processing moves the waste process into our program as well. With the Waste module waste pickup requests, waste pickup reports, chemical waste entry reports, chemical removal reports, waste stream information, compliance reporting, chemical waste archive reports, and DOT shipping documents can all be generated within the program, simplifying the process for all parties involved. PI's can now check the status of all waste pickup requests and their inventories will be updated in real time once a pickup has been completed.

**PI Inspection Assistant** - The inspection process is started on a scheduled lab inspection. The inspection is conducted using the Web Based Tablet Inspection Assistant or a paper inspection form. At the end of the day the inspection results are uploaded or keyed into the Inspection Assistant.

Once a deficiency is noted the inspector is asked do you want a written response. Clicking YES sends an open inspection result to the PI. The PI must have Web Based PI Inspection Assistant rights to access the Open Inspection Results. The PI now has access to the inspection results correction information allowing the PI the ability to respond to the deficiency noting the corrective action that has been taken.

Sending the information via the Web to the client database will initiate the edit survey results section with the corrective action noted by the PI which is entered with the response, date corrected and corrected by noted.

On Site Systems has also added a Risk Level option to the inspection results that allows an inspector to determine whether a violation is Critical, Non-Critical, Emergency, or any other designation that you have created within your inspection module. This new feature allows the inspector to determine the Risk Level at the time he or she finds the violation/unsatisfactory condition. This offers more flexibility communicating the results of the inspection to the responsible individual.

The Risk Level Field not only allows for the entry of a Risk Description, but you can also



make a request of the user that the violation be corrected within a set timeframe. If some violations are more critical than others, your inspections results should reflect that.

Beyond just the updated modules users will find new features like the interactive floor mapping and SDS parsing tools. The floor mapping feature EHSA latest feature gives you access to everything you need to know about your buildings and labs at your fingertips.

Once you've added a room and assigned it to a building in EHSA, you can easily create a map using our new lab sketching tool. Existing floor maps can also be imported directly into the program.

The interactive floor map gives you a clean, visual representation of every room and building, and all of the information about those rooms, (responsible parties, inspection history, satellite accumulation, RAM, CHEM and BIO inventory, fire hazards, lab notes, equipment etc.) is just a couple of clicks away.

The SDS parsing feature streamlines the inventory entry process. This tool allows users to import a pdf of any chemical they receive, and with a click, the inventory item and its SDS are almost instantly added to the institution's library and the user's inventory. All relevant data is scraped directly from the SDS and formatted to fit the existing fields in the program. A process that could take several minutes, now only takes seconds.