



South Carolina Department of Health and Environmental Control

E-Plan

Tier II Reporting

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What is E-Plan?

E-Plan is a national data base designed by UT Dallas for First Responders and others with on-site hazardous chemical information for facilities around the United States.



What kind of information does E-Plan Provide?

- E-Plan provides Tier II reporting data and other important information instantly such as
- Maps of the area surrounding a fixed facility showing schools and hospitals.
- Maps of all facilities with a specified hazardous material in specific area.
- Chemical Hazards Response Information System (CHRIS) data,

Information continued...

- Safety Data Sheets (SDS's) and Material Safety Data Sheets (MSDS's),
- Chemical profiles,
- Emergency Response Guidebook (ERG) pages,
- National Fire Protection Association (NFPA) codes,
- Facility Risk Management Plans (RMPs).



E-Plan in the Field

Drum Identification and Recovery

- Only the CAS number 74-86-2 was visible
- Using the CAS# determined the chemical name to be Acetylene
- With the Facility Chemical Search option a list of all the facilities in the State that contained this substance was generated.

- If a large number of reporting facilities comes up in the query then
- It could be narrowed down to the county level and then to the city level
- At any of these levels the Google Map option may be selected to overlay the locations of these facilities over a Google Map.

- When these points are selected the most recent Tier II information is provided.
- Using these locations narrowed down the search to only a handful of facilities that may have used that road for transportation and contact them to check their inventory
- Soon after contact the responsible party returned to recover their product.

Hurricane Mathew

- Utilized the visual chemical search again.
- After Chemicals of Concern (CoC) were detected in the Pee Dee River system a list of all the facilities in the area storing those CoCs was created.
- The list was further narrowed down by visually determining which of these facilities had the potential to leach into the river.

- Using this final list all the facilities that were a potential risk were then contacted using
- The information provided on their Tier II to check if there were any releases to be reported.
- E-Plan was also utilized for efforts to detect releases of CoCs as soon as possible.
- Using the searching by facility and then by county option, a list could be generated that was only populated with facilities that had reported Tier II's in the effected counties within the last reporting cycle.

- Using another function in E-Plan, these facility's emergency contact emails were then transferred to an excel file and then to a bulk email.
- This email was then used to send out a survey to all of the reporting facilities only in the effected areas to check on their current status.
- The emergency phone numbers were also used to then call every facility on the list that did not respond to the survey.

- One of the major events that took place after Hurricane Mathew was the flooding of the Town of Nichols
- Other than the flood damage the contamination from the local facilities was also of concern
- Then using CAMEO Chem, that is also linked to in E-Plan we found these chemicals reactivity to water as well to each other.

- After knowing which off gasses had the possibility to be produced the appropriate area rays could be placed around the perimeter as well as inside the reporting facility to monitor potential off gasses.
- Using this information we could recommend the appropriate PPE usage while the clean up and recovery phase took place.

Hurricane Florence

- The process of sending out a bulk email survey to all the effected facilities was then repeated for Florence. However the survey was so successful this time, the individual calls were not deemed necessary.

Accessing E-Plan

- E-Plan can be accessed by any computer with internet access by a user with an account at this web address:
<https://erplan.net/eplan/login.htm>
- An account can be created to upload data by anyone but to create an account to search the data, permission must be granted by a certified admin for the site.

Changes to E-Plan Tier II Reporting

- Due to the changes made by the EPA, E-Plan has made the following changes to their data entry system.

Update online form to match the EPA 2017 Tier II Submit software as follows:

- County is required.
- Incorporation of new hazard categories and NAICS 2017 codes.
- Type, Pressure, and Temperature for each location (even if "Confidential" is checked) are required.

- Add new hazard classes in the regulations (40 CFR part 370) for reporting under EPCRA Sections 311 and 312 due to the changes in the OSHA Hazard Communication Standard (HCS).

- Modify import to allow Tier II data to be imported using an XML file that adheres to the new EPA's Tier II Submit data standard.
- Modify export to create an XML file that adheres to the new EPA Tier II Submit data standard
- Update State data fields (if any).
- Change "Manage Submission" to "Account Information".

- Note: After facilities copy data from 2017 to 2018, they must re-check all the “Physical and Health Hazards” boxes that apply to each of the chemical that they are reporting on the 2018 Tier II form.

Thank You

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