

**CAMEO at NASTTPO Notes  
May 20, 2015**

**Plenary Session – Mark’s talk:**

Questions:

Tom Bergman:

- It says “Web based version of CAMEO”. That’s not what they intended for it to say. They intended it to say “web based/server based online version of Tier2 Submit”.
- Mark: we have a commitment to web based CAMEO Suite – if we do move in this direction, first product would be Tier2 Submit.
- Tom: Important to consider all of development on this – Tier II Collection, Tier II Management, and in some cases information distribution. They don’t have to be one product. The piece NASTTPO has been primarily interested in is Collection – that’s the part NASTTPO has been advocating for web-based. How people want to distribute etc. can be different things. Collection piece is very different than distribution. Collection is what affects NASTTPO people most.
- Mark: The data collection is really important. Resurgence of EPCRA when electronic collection became available. Bottom line is chemical safety. Collection is one piece of that.

Oklahoma, Monty:

- There are lots of people who do electronic data collection, but some states can’t afford to do that – they have paper built up. She really wants a system for those states who can’t afford to buy another system – it is a blessing that it is free, any state can pick up this free method to electronically collect. Important to present states a FREE option for electronic data collection. When it’s on paper it doesn’t get used effectively. Wants NOAA and EPA to help states have a way to collect electronically that’s free so they can “afford”.
- Mark: Training outreach awareness is critical element. There is a free system for states currently. Agrees with integrated data system.

Unknown man:

- Is there any way in future to incorporate an app – would be advantageous for response community to have at fingertips. Even if not whole suite - especially facilities, emergency plans, contacts.
- Mark: should be stand-alone so no internet, or use internet. We do plan to have an EPCRA data viewer.

Mark Howard, AZ: AZ, back then had money, now challenge just to sustain it. Now he can no longer talk to CAMEO because he can’t afford to make necessary changes in his system. Those who did put money into their own systems don’t want to be forced to dump those systems. They don’t know about CAMEO

changes until they happen, then can't communicate with it. From EPA's perspective if want this EO to work, there needs to be a funding system to provide to states.

Mark Miller: Would make sense for every state that has their own system to have early notification of changes. NASTTPO is good way for us to get info out. Anyone who has own system talk to Jon so he can provide early notification.

Kim: This all gets to communication part – how do we get info out to people? Any ideas people have please share – willing to do it but sometimes don't know best way.

PA: when talk about collection on large scale, gets concerned about security. They are extremely careful about confidentiality of this info – one county cannot get info from other county. In era of terrorism etc. this is extremely important. Need to know basis.

Mark Miller: Any NOAA server that has public face/internet access is under attack every day. They are all like that. Very important.

Kim Jennings: This because big deal after West TX. Magazines wanted to put big map on cover. EPCRA philosophy since beginning – communities have a right to know. But people in other places don't need to know. LEPCs and SERCs can say only if you live and work in this community. LEPCS and SERCS need to have a process for how will present this data. Who can see it and who can't – if part of community yes, if not don't have right to know.

Missouri – after Bakken Crude stuff – examples of states that have done this.

Gardner: Chemicals don't recognize county, state, international boundary. Need to plan for events that are adjacent to you. Artificial barriers – does it do right for the people or does it fail? Have to promote sharing between LEPCs or States.

Kim: If a chemical could affect the “community” the information should be shared. But don't have to give to everyone who asks.

Mark: example, Hazmat units that have mutual aid.

Man: hesitancy to do sharing because don't know when will get to press. Especially re: Bakken crude.

Kim: This is where need good process in place. DHS and another struggled with this in EO – they devised way to do it. Sensitive information. There is a level of what you can share. Share certain pieces they need to know, but not others that don't. “If there's an accident, what do I need to do?” Don't need to know the sensitive info. Here's when you evacuate and where, and here's when you shelter in place. It takes more work but it is workable.

Mark: CFATS and ATF can filter data – gives what need but not what don't need/sensitive

Man: taking off EPLAN hat and putting on firefighter hat: CAMEO SUITE given to him 8 years ago and refreshed it every few years. Current level of firefighters and their abilities – they need something

easier. If implement online Aloha would be great and tie into weather service. A little more down and dirty. More than just protective action distances. Web based Aloha – high priority for firefighters. As well as CAMEO being more point and click-ish.

Tom Bergman:

- They do a lot of things with CAMEO and use for a lot of things. When start talking about distribution and access to data – states have different ideas. Some very concerned secure. Some give to anyone. That’s why should separate data collection from distribution.
- Mark: talk about CAMEO being integrated set of tools. Online web-based Tier2 Submit would be 50% of effort for everything we have up here – this means we’re not doing something else. This is why need feedback to help prioritize where stands.
- Timeline? Mark – online Tier 2 Submit would be at least 2 year development. QA/QC requirements are much larger now. MARPLOT – probably spent 25% of effort on QA/QC. At least that, maybe more, in developing online Tier2 Submit. Security aspect is big deal too. Mark – 2 years from start of development and haven’t started yet.
- Tom: everyone downloading to computer is getting hard/old. Online Tier2 Submit is important to them. Otherwise they are all going to have to go buy their own system.

In terms of Training/Users, Firefighters:

- This year Hawaii was not on the list of training. Is there going to be budget to increase training?
- Mark: No, no increase in budget to do. Distance learning is one part of answer. All of classes man mentioned are good. Our online training aspirations are at awareness level. We need to get imaginative and smart with how use our training time. Do it at pace that end users can do – firefighters on shift etc.

NV: Have ever through of getting industry involved from reporting standpoint? They are the ones reporting. Have industry support it. In NV, they work with industry – “hey you have this info need to get to first responders how should we get it to them?” Get industry to back us and support us. Partial answer to budget. NV got industry to develop system. NV has fee system and industry pays those fees. Industry is part of the SERC. They pay it and understand how the database works. They are a partner in the whole process. If need to collect more fees, go to them. State runs it on their server.

TX: Large industry in TX recommends CAMEO Suite – only option that really works with chemicals. Industry is quite receptive, especially when tell them dollar signs. May be overlooking a resource – industry.

#### **Discussion Section:**

Rob Larkin, Lexington KY, Fire Dept and Greg:

Been a while since ran CAMEO. Can use for a whole lot of different things. More concerned with when go somewhere at 2am for a big emergency and it’s a bad situation. Someone fires up computer but more than one person needs to work on at same time. In Army had dual stations – “his work starts

feeding mine". If person doing research on chemicals, he couldn't start plotting plume on separate computer. His computer and next person's computer are not linked. Used to hardwire two together in Army. One person doing research, one doing plume modeling – but not connected and not updating each other. Safety Major shows up and needs to work on site safety plume. Can add FEMA ICS forms (101, 201, etc.) to program (embed in program)? FEMA ICS forms and more specific Hazmat forms. If this event is 4 – 12 hours, long, all needs to be documented. Hard to write with gloves when pouring down rain at 3 am – very difficult and hard to read. Activity log – ICS 202? could start entering in. Can type or be in truck (no gloves).

Summary: want to have at scene, link 3 or 4 devices, with mini wireless hub. MARPLOT, local TV station, research on combining chemicals, site safety plan, recording things, plume modeling. On scene could have 7 hazmat companies and 3 people each. Incident commander, operations guy, research, safety guy – 4 guys all on it. Boss could also watch it all on screen and determine where allocate resources – develop common operating picture.

Search and rescue – grid it off and set it up. So much can do with this.

Incident command forms – form fillable. Certain things pop in – fill in incident location and lat long etc. Things auto populate would be very helpful if can. Have a fillable form in Suite so can click on and start getting paperwork ready because will need to be done eventually.

What's on FEMA's website they say is form fillable, but it's not.

They use CAMEO now.

COBRA – have to pay yearly – not going to do. Peak is another. Most use Wiser? Cause on their phones. Impact.

Plume modeling – can develop something for streams if goes in water body? Could throw in bobber and take how long moves 100'. If happened 20 minutes ago, how far has it gone down? "How far down do I need to go to stop it?". Have little app – bobber took 10 seconds go \_\_\_ft.....need to go \_\_\_\_\_ft downstream – calculator tool. Using velocity.

Summary: four devices want to use (ipads, laptops, etc) – they are in a truck/command center with "do not disturb" sign. Then another person trying to bring up the preplanning work that's been done. Setting up control points, etc. One person trying to remember how to do everything at 3am is not good.

Command post – even those 2 computers don't talk to each other.

They load all their Tier II submit sites onto computer annually at least.

Their LEPC hazmat guy won't take anything other than electronically.

12 – 14 computers across their department – some desktop/laptop. But up to four units across site be able to connect. Either do wireless or whatever – can secure with password.

When big event, a lot of people have to do a lot of work quickly.

Nitric acid release blowing toward their city. Example. Address this. Multiple things at one time. What other chemicals there. What happens when combine. Using CAMEO Chemicals. At same time, where is plume going. Reacts and starts giving off vapors.

USED MARLLOT to grid out path of tornado – how many homes affected. Excellent program used many times for variety of things.

Excited putting NIOSH Guide in.

Forms – brief people, form is scripted brief. In preplanning, take pictures. Helps layout plan of how go in, show red switch, etc. They would populate it. ICS Forms – this info could start coming in automatically.

Take all pre plan or Tier II info and put on app. Minute leave truck have lost all info – but always have cell phone with him, that's why it's so vital that have app. If app is developed and pushed down to states. State hosts server because they get all Tier II info anyway and push out to LEPCs etc. Security is valid concern. Ways to restrict/permission. Free app can download. But in order to download info need security code.

Tom Bergman: CAMEO Training.org site – would be great to have people like Greg write in and tell stories and how used etc. They are success stories but Greg doesn't see as success story – he's just doing his business.

Mark: Aloha and CAMEO coming out same time in June – they are linked.

Nancy idea Mark agrees: Do small taped Tegrity talk video when release new one. Nancy can learn it and do it. Distribute on CRRC website.

Mark: 3 – 5 minutes videos – that's the attention span. Small little things: Place an object on map, Create a new layer, etc

Con Academy is training Mark mentioned. Different ways to do it. Options are wide open.

Wanted to link 4 devices – Mark – this is very hard to do. Maybe don't all have to be synchronized? That would be easier.

Mark – ICS forms, this is interesting one.

EPlan has an app for Tier II Reports – requires internet.

EPlan guy emphasizes people download prior to event because won't have internet and tells them to print out paper copy too.

Mark got feedback that says very important that no internet required.

Notes from Brianne's discussion with KY Fire Dept:

#1: They didn't mention any specific apps they use now. However, they seemed pro app. They noted that you don't take the MDTs or tablets from the rig at a response, but everyone has their smart phone in their pocket still when they leave the rig.

#2: They would use all four formats.

#3: They are very interested in the EPCRA Data Viewer app. Right now they have to put the Tier2 Submit info on a flash drive, and then get that pushed out to the computers one at a time by IT. [[It sounded like 10s of computers were involved, and that this process is slow and burdensome.]] Having a "view only" EPCRA Data Viewer is fine with them. [[I had noted that some people were interested in having the ability to edit the data in the field or add to it, perhaps during an inspection.]] They noted that they wouldn't want to have ability to change data by accident. They want to keep data exactly as it is on the Tier II form.

[[I described our potential syncing process, which might involve physically connecting to a computer running CAMEO or doing a CAMEO export and syncing based on that file.]] They didn't like the idea of doing an export. They noted that export is hard right now in CAMEO. They also didn't like the idea of physically syncing to a computer. Instead, they proposed something that is essentially a server-based CAMEO. They feel that the organization that gets the data (that is, state/SERC) should be the server host. Then a blank EPCRA Data Viewer app would be available for anyone to download from the App Store (or wherever), and then people would populate it using an access code provided by the data owner. That is, data would be pushed out to apps based on permissions. They are interested in this method because it can give them the ability to give access to people outside of the fire department, as appropriate, since pushing the data is based on a code not a physical sync. They have talked to some developers about the possibility of developing such a tool, but they'd rather it be something more broadly available so that more people (besides their area of KY) can use the tool.

Websites in general: They have concerns about homeland security issues and web-based products.

#5: Not sure an ALOHA website is a good idea. Concerned about making it too easy for bad guys to get at the results.

#6: State should host a Tier2 Submit website. If it's web-based, then when industry fills it out, the data can be pushed to everyone at once. No delay in distribution due to bottlenecks like people being on vacation or what have you. So the "instant access" would be a plus. But on the flipside, the instant access means there is no chance for the basic QA/QC step that happens now. So an online Tier2 Submit website would need to have validation for basic issues (e.g., make sure all fields are filled out).

#7: Concerned with access. [[I think with making sure it was accessed by the right people.]] Should be hosted by end user of Tier II data (SERC or whoever)... the entity that charges fees and does distribution

of grants.

#8-10: No comment; skipped.

#11a: 94 active LEPCs, about 50% use CAMEO suite programs.

#11b: Yes.

#11c: In process of developing.

#12a: No comment; skipped.

#12b: Yes. Also, they had previously asked Stefan about developing a flip chart, and he made up those quick guides that are available now. They're really happy with those.

#13: No comment; skipped.

#14: The app will speak for itself. [[That is, they think the EPCRA Data Viewer could be such a powerful/useful tool, that having it available as an app will draw users to the CAMEO suite as a result of it just being out there.]]

**Notes from Jon's discussions:**

Tom Bergman (Oklahoma): there are 3 aspects of Tier II: collection, management, and distribution. In regards to a T2S web app, he doesn't need all 3 – collection alone is enough.

Paul (Florida) will be sending state field request via Tom B. or Stefan C. Sounds like they want to require RMP and something new (CFATS?)

(Later, it occurred to me that RMP ID is already required if you click "Subject to Chem Acc. Prevention under 112(r)")

Mark Howard (Arizona): People with own T2 Systems don't want to be forced to adopt our online T2S.

Somebody from (I think Penn.) was concerned about security of a web app.

Florida Eplan? Person: firefighters need something easier. Web-based ALOHA. CAMEO more point and click-ish.

Nevada has fee system to support state-run server system

Lori Reed, EPA: PEAK, Laramie WY

Interview with Bernardine Zimmerman (Texas Department of State Health Services, Tier II Chemical Reporting Program):

Q: If you were to host a web application, do you have a preference between a proprietary database format (Oracle, SQL Server, FileMaker Pro) or open source (PostgreSQL, MySQL)?

A: Out of her bailiwick

Q: Do you interface your t2s data with other systems? How important is it to you to be able to work directly with the database? Is it enough to use the data standard?

A: No, T2S is end of it. (She is just beginning to use CAMEOfm.)

Q: Would you prefer separate yes/no boxes for EHS?

A: Probably preferable

Q: Are you satisfied with the reports produced by T2S and CAMEOfm?

A: No problems, but might like list of facilities (name and address, maybe phone # optional)

Q: If you could change one thing about T2S or CAMEOfm, what would it be?

A: More clarification on validation errors. Apparently people fill in the phone number on main tab in Fac and think they're good – i.e. don't provide emergency contact 24-hr phone. She said something about D&B too.

Q: Do you have an existing system of password authentication that you'd want T2S web to adopt?

A: Would deal with at local level. Ask Hoyt.

Q 6.b): If there was a Tier2 Submit website, would you envision still needing the desktop version of Tier2 Submit? (For instance, does your state enforce a single method of filing or do you allow several different filing options?)

A. Absolutely. Also for emergency responders when no web.

Q 6. c): Given that the Tier2 Submit website would need to be run at the state level, would your state have the resources (staffing, servers, etc.) to support a website?

A: Don't know yet.

She mentioned something about "virtual computer on cloud deployment" Steve Hudson on LSU site.

I mentioned idea of dealing with load on website via multiple deployments (e.g. divide Texas into smaller pieces). She doesn't like that because assigning who does reports gets complicated; there some submitters are outside the state.

Henry Jolly, Haz. Materials Coordinator, NM Dept. of Homeland Security & Emergency Management:

Wants pie charts for things like # chems in an area (state?) I suggested Excel. He does that, but points out that sometimes fields are in different .mer files. I asked him for specific suggestions.

Apparently he imports a .t2s that is on multiple CDs, and halfway through it gets lost. He tries again and it works.

Hates my search. Company with multiple facilities isn't consistent about naming them year-to-year, so it's hard to find records by searching on company name.

Interview with Monty Elder, Oklahoma Department of Environmental Quality:

Q: How many submissions do you receive in the last two weeks of February?

A: 30,000 facilities from 12,000 owner/operators

Q: Do you interface your t2s data with other systems? How important is it to you to be able to work directly with the database? Is it enough to use the data standard?

A: They do interface with Access and Excel.

Q: Would you prefer separate yes/no boxes for EHS?

A: Yes

Q: Are you satisfied with the reports produced by T2S and CAMEOfm?

A: Talk to Tom.

Q: If you could change one thing about T2S or CAMEOfm, what would it be?

A: Need link to help on RMP and other box. People wonder "what in the world does that mean?"

Validation report: sometimes difficult to figure out where error is. Tell Tom "Jimmy got lost" doing corrections.

Q 6.b): If there was a Tier2 Submit website, would you envision still needing the desktop version of Tier2 Submit? (For instance, does your state enforce a single method of filing or do you allow several different filing options?)

A. Would not need desktop version for T2S, but would need for CAMEOfm.

Q 6. c): Given that the Tier2 Submit website would need to be run at the state level, would your state have the resources (staffing, servers, etc.) to support a website? Does your state collect Tier II filing fees?

A: Yes and yes. They collect \$400K in filing fees.

She mentioned that E-Plan has weak tech support.

In OK, users download their previous year's submission. This means that they will have any corrections made by the state.

OK is trying to get RMP facilities to attach their RMP.

I showed her FM Server costs – she was not fazed.

OK is 2<sup>nd</sup> to TX in # facilities.