

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

The agenda for the EFCOG SQA CoP 2022 Fall meeting (Software-Quality-Assurance-Agenda R01\_11.15.2022) on this date Wednesday November 16, 2022 is used as reference to the sections of the notes, based upon each agenda item. The agenda as well as the presentations for agenda items, and this document of notes/attendance will be emailed out as reply all to the people in the Outlook invite of this meeting. Please see the presentation of an agenda item for information provided within, the notes taken in this document are those in addition to what was shown in the presentations. The Chat log is provided in a document attached to the email sent out with the notes. The attendance is available at the end of this document.

Meeting hosted by Teri Vincent EFCOG SQA Group Co-Chair, of Y-12/Pantex.

**A. Welcome** – Welcome – Agenda Overview & Safety/Security, by Cristy Renner of FBP-PPPO.

1. Cristy thanked everyone for attending the meeting, she mentioned that 116 people had signed up for this meeting at the EFCOG website. Cristy recommended our next conference in the spring, be hybrid as more people can attend this way, instead of only in-person.
2. Cristy provided Safety Share, regarding the new iPhone 14 crash detection feature, and its effect for people riding roller coasters. Users of this iPhone should put the phone in airplane mode when they are on roller coasters, because the affect on their bodies (accelerated heart rate for example) can trigger the feature to call 911. This happened at Kings Island and Six Flags amusement parks this summer, that there were 911 calls for people on roller coasters. The phones may have been tested, but may have not been tested in use case for scenario on roller coasters.
3. Cristy shared trivia, Kings Island used to be called Coney Island, and was the inspiration for Disney Land.
4. Cristy went over the agenda, requested questions be put in Chat versus verbally so they are captured best for notes. The task groups that are meeting today will provide description first of where the group is at, what they plan to cover, in the afternoon breakout sessions.
5. Cristy requested people to volunteer as presenters for monthly meetings in new year. Please contact Cristy or Teri or Carol if you would like to volunteer.

**B. Integrating Software Assurance with Vendor Background Checks**, by Amber Romero – and Alisa Bandlow of SNL.

1. **Software Operational Technology Assurance & Software for Trust Evaluation Reliability and Information Assurance.**
2. Both of these presentations are Official Use Only (OUO), no public distribution allowed. Therefore they are not being provided. Notes taken from the presentation may also be considered OUO, therefore notes will not be provided.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**C. Description Cloud Based Hosting Software Task Group**, led by Orlando Ferrer of RL.

1. Plan to open up White Paper, and go over it with team.
2. Put in framework for usage in cloud environment, go more into depth.
3. Put out questions to task group, get their input.
4. Group is being re-started, refresh group on paper, haven't met for awhile on it.

**D. Description SQA/Cyber Security Integration Task Group**, led by Greg Pope of LLNL

1. This group is just getting started, first meeting for.
2. Some labs are working on this topic area right now.
3. Plan to look at application security.
4. There are other branches of Cyber Security – Network, Operational, Disaster/Recovery, Education, and Cloud. We need to decide which branches/areas are in scope for our group.
5. Things to consider: What kinds of Cyber Security can we influence?
6. Be good idea to look at what other labs are doing in this area.
7. Quality of software, is based upon software meeting customer requirements. If security is included in requirements, then security should be in the purview.
8. There is a big challenge to integrating SQA with Cyber Security. It appears there is funding for Cyber area.
9. Another challenge is resources in each of the areas may not have expertise in other areas, such as IT may not have cyber experience. And to these groups talk with each other?
10. Greg would like to define the scope of this group in the break out session today, what the group plans on doing.
11. Greg walked through a report of what LLNL did recently using Cyber Security analysis. Good SQA practices can be correlated to Cyber Security perspective. There is quite a bit of overlap. The document Greg showed is OUO, for Cyber Security Analysis for the Widget Temperature Measuring Device. This document may not be provided with the notes from the meeting, due to it being OUO. It did get approval for external distribution today.
12. The approach that was followed was for Systematic Theoretic Process Knowledge (STPA) based upon Nancy Levingston of MIT. This approach replaces FMEA, it is control of software system based upon software. FMEA is based upon hardware. In STMA there is emphasis on interaction of components and the issues that result from them. Many hazard analysis techniques are for hardware based upon single point of failure. In software accident, such as for iPhone incident from safety share, software may have been used as designed to work, but not designed for accident. Software does right thing, at wrong time. Requirements are not complete.
13. The document showed a Hierarchical Control Structure Chart.
14. Code ->source code-> compile code -> software configuration repository \_> target hardware for testing -> faults emulated.
15. The software purpose is to find out how can vulnerabilities get into code.
16. Take-away, most Cyber Security vulnerabilities mitigated by SQA.
17. 100 million lines of code in Ford Pickup car.
18. Teri Vincent of Y12/Pantex asked: Greg, have you spoken with Bridget Mace from the Cyber CoP? Teri spoke with her previously about this topic. It is recommended we don't work on it in a vacuum. Bridget works with Randy Durbin. Teri will look for contact info for Bridget and provide to Greg.
19. Greg noted - challenge for group is how do you scope this? Security and applications overlap. Other person may not be able to influence, such as application that provides login to an application, that is

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

different software than the application such as LDAP that the software person does not control.  
What can SQA influence in Cyber Security?

20. Corwin Jones of LANL asked what about SQA design control with respect to cyber security side of a software application? And what about firmware on hardware, do we know where delineation line is at? Security does not drill into pipes for example. Software is component of system, not much can be done on the physical side of the components. Cyber can push update to your software at any time. Perform Threat Analysis, modify design to meet safety analysis. Cyber Security performs updates to design of safety software. Shouldn't be able to do that. Disconnects. SQA doesn't have clout to say "no", there is push back, lack of resources.
21. Greg noted, the two things Cyber & SQA are not the same thing. Need to protect physical and outside entity. There can be inside damage, non-malicious modifications. 99.9% issues are self-inflicted.
22. For example, value in safety system, database record for physical security, where manufactured? Controller on bolt, information on it in several databases – Engineering, Safety Software, SNOW.
23. Teri noted there needs to be integration of databases.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**E. Breakout Sessions – Part 2 (Working Session) - SQA/Cyber Security Integration Task Group, led by Greg Pope of LLNL.**

1. Greg asked what does your lab do now for Cyber Security & SQA?
2. Lincoln Djang from WIPP responded, what is important is scope. SQA/Cyber Security it is important there is understanding of each organization's R2A2s. Like Corwin stated, one application open system integration is important, integration of safety management – analyze hazards using ISM method. Use ISMS with partition between SQA & Cyber Security. Integrate. Opportunity for scope out what falls under SQA & Cyber Security.
3. Does the QAP have any statement about integration? No. Struggling with defining scope, in ISM wheel. Do we have resources to address. Poor understanding about mystique of whether Cyber requires partition of hazards. Need useful and constructive outputs. Cyber Security and SQA need to go hand in hand.
4. Greg suggests using the ISM model, scope out Cyber Security and SQA roles and responsibilities. Agree money does flow to CIOs, not much money going to other areas.
5. Teri asked – are you under DOE O 414.1D & NQA-1 in all our contracts?
6. Lincoln responded, yes for WIPP. Not clear understanding of resources to mitigate risk. Controls to perform work using ISMS working with software not easily understood.
7. Corwin noted, 414.1D has QA over all software, transfers into risk significant software, not full NQA-1. At his lab they have High Risk – non-safety software, and high risk test equipment down the road.
8. Cyber does good job to connect to network, scan software. How are you going to maintain this in SQA plan? Maintain software plus for testing/adjustment of values by Engineering design plan, don't cover adjustments testing.
9. Teri noted all software follows SQAP at my site.
10. Corwin responded for commercial nuclear weapons, way things handled is different, pain points the same. Safety system has its own database.
11. Teri suggests we start with where everyone is at. Greg responded, first location, what does your location do now? DOE O 414.1D Attachment 4 work activities, cyber security not topic.
12. Teri responded O 200.1 mentions SQA for Cyber Security. Is 200 in prime contract at your lab? Also 205.1C DOE's Cyber Security Program is referenced in SQA EA memo.
13. Teri has these three questions in her site's infrastructure group:
  - a. Can we support it? Resources.
  - b. Can we develop it?
  - c. Do we need licenses for it?
14. For Greg, his site has these questions to cyber group: US based developer, Login Access. If these both are answered yes, then goes to SQA, for what controls need to be in place to meet requirements.
15. Lincoln responded that the 3 questions Teri uses, would be good for our task group to use.
16. Corwin added, what is our end goal? Maintain software compliance? Done thru SQA plan. From audit perspective, impossible to get all info together. When there is cyber event software inspected, how can we get all this info?

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

17. There was an issue on Dominion software. Looking thru scans saw we had Dominion not on software list, but found it in cyber scans. Found we were behind in our version of software.
18. Like to look at from audit perspective. Concentrated on safety software. Didn't see Excel 97 needs to have to run, not valid version for lab. User got this version of Excel off the internet.
19. Teri responded, there can be shortcomings with procurement ties. At her lab, no software allowed to purchased unless SQA approves.
20. Corwin noted, SQA concentrates on software, doesn't look at servers which is Cyber Security task. Need holistic view. INL put in engineering change process SQA.
21. Greg asked does everyone on call, put in all software to meet attachment 2? LLNL does both. How do we know if we have all software? Not everyone puts all software in inventory.
22. Teri noted, this is how our site integrates the 3 entities for Pantex:
  - a. IT – host on network?
  - b. Cyber – Security.
  - c. SQA – what controls if any.

For safety software – more controls. Non-safety – not do as much, do little of anything. All requires version control.

23. Corwin asked if Cyber changes application, SQA contacted? Teri responded yes, we watch out for cyber, cyber doesn't always cover SQA. Have weekly survival meetings.
24. Corwin noted SSS goes thru engineering at his site. IT.
25. Greg asked, does this process delay me getting this tool?
26. Corwin responded, Shouldn't. Once integrated, works. Excel integrated with IT, they do the maintenance.
27. Marlene Underwood of Northwind Portsmouth noted, security is in monitoring role, doesn't fix anything. IT fixes. Our process is similar to Teri's. Change control process goes thru infrastructure to cyber.
28. from Donna Riggs to everyone: 1:43 PM
  - I concur that software requirements need to include the cyber-related requirements explicitly.
  - good justification for NOT limiting software inventory to safety software
  - Perhaps widening the two-way street could be part of this group's goals?
  - IT infrastructure, cyber, SQA
  - Yes, through education
  - I think they mean facility engineering?
  - Sites have design engineering
29. from Nathaniel Hein (privately): 1:44 PM  
At LANL, cybersecurity functions totally apart from SQA. Separate requirements and separate approval processes.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

WIPP - Use ISMS model to address and scope out problem and identify needed resources. Contract includes 414.1D and NQA-1. Needs to understand scope. Safety and non-safety

30. from Lincoln Djang to everyone: 2:02 PM
  - it may be noteworthy that contracts may include or omit DOE Orders in the SQA scope
  - Teri has identified a clear set of roles and responsibilities for SQA/Cyber integration
  - If we make the business case then it will be easier to sell at those sites
31. from Lincoln Djang to everyone: 2:24 PM
  - I think Donna is right: the goal = the two-way street should be widened
32. Corwin: 414.1D if handle right will handle it will transpond down well. Gaping hole high risk not NQA-1 safety and test equipment. Developed software bypassed \$0 procurement. End goal...maintain the integrity of baselined software.
33. Look at it from audit perspective
34. Need holistic view.
35. Teri - three integrated IT (can we support it on our servers, can we support development or pushing out to large group), Cyber Security (is it allowed on our network, where will it be hosted (unclassified/classified), what security is necessary, etc.), SQA (what, if any, controls need to be placed on the software, etc.).
36. Pope LLNL Safety and non-safety – continually find software that has appeared
37. Leo Gillen to everyone: 2:16 PM  
PORTS puts all software into one system
38. From Bryan Coonfield to everyone: 2:16 PM  
WRPS, we put all software into one system
39. from Carol Olijar to everyone: 2:27 PM  
Argonne tracks all software in their inventory that has been vetted that is used for or in support of a nuclear facility.
40. Marlene – similar to Y-12/Pantex
41. New SBOM requirement for supplier quality assessments...derived from? Looking at supplied information from vendor.

**F. Breakout Sessions – Part 2 (Working Session) - Cloud Based Hosting Software Task Group, led by Orlando Ferrer of RL.**

No notes were received from this meeting.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**G. SQA EA - Q&A** – Phase 1 Enterprise-Wide Assessment of SQA Process Implementation, Presenter: Aleem Boatright of DOE.

1. The assessment is for contractors and field elements.
2. There will be increase in staffing for SQA for 2023.
3. Looking at what would be best benefit for sites.
4. We are working on last part of Phase 1. Having meeting conversations. We are looking at adequacy, performing analysis, and comparing what we received from the sites.
5. Finalize report by end of year.
6. Scheduled thru site leads, for coming out to sites in 2023.
7. Observations thus far:
  - a. Consistency determinations of safety/non-safety.
    - i. Some are using checklists, which are defensible. Not everyone using. Adds paper to decision making.
    - ii. Most sites using guide for safety software grading levels. Targeted to safety software. Intend to see how apply for non-safety software. Questions targeted to how graded.
  - b. Toolbox
    - i. Cited, but not clear organizations maintaining, doing separate V&V to use code.
    - ii. DFNSB looked at the Toolbox.
  - c. Cyber Security
    - i. Varying levels of cyber security, some have deliberate process, some had none.
8. We will be rating our observations of the sites programs.
9. Donna Riggs a SQA SME on project. She provided the following comments:
  - a. Federal oversight – some sites had clear patterns of review. Interviews if something missing.
  - b. Federal staff qualified to 1172. Very little documentation for this qualification.
  - c. Regulatory of oversight.
10. Yevonne Deaton of DOE noted, that TQP is qualification of 1172.
11. Donna responded, need list of people current to TQP qualification.
12. Aleem noted, there is level of rigor, not looking at training records. We will choose a site, then pull records.
13. Yevonne asked, looking at contractors?
14. Aleem responded, look at contractors and field elements. No requirement for contractors to be on TQP.
15. Aleem noted, that he is scheduling 45 minutes with each site, to go over list of questions responses he provided to site representatives. Desire, to respond with answers to questions, in most cases, not have to meet if all info needed acquired. Answers to questions is optional. No one is judging questions for information. No findings for questions. Questions and answers should be provided before meeting.
16. Teri noted, she got error message when she sent email to Aleem.
17. Yevonne noted the interviews need to be done by 12/2.
18. Aleem responded, that can go past date if needed to accommodate sites.
19. Aleem noted, the report will be an aggregate, not point out each organization. Field Note report. Graphical representation of comparison of ratings for project.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

20. 30 contractors. Number of contractors selected will be > 4, less than 10.
21. Plan for 2023 Phase 2 is:
  - a. Complete CRAD assessment guide,
  - b. Schedule assessments over calendar 2023 with EA-31, site lead will get notification for contractor.
  - c. Team conducts assessment at site.
22. No specific orders for cyber security, there does need to be requirements put in for integration of cyber security 205.1C and 414.1D. Is it implied that needs to happen anyway, develop to meet, other organizations can do the same, or need for new requirement.
23. SQA SMEs on project are Kathy Martens and Donna Riggs. Kathy is from outside of DOE, lots of QA experience.
24. Other SMEs provide insight for other sites. Bring people for different backgrounds. Yevonne suggested this, augmentees.
25. Teri noted to Aleem, that on today's meeting, we have task group that is looking at integration of Cyber with SQA.
26. Yevonne noted for DOE O 414 order revision group, changes in order for cyber security, please pass onto Yevonne to take into account for revision.
27. Marlene Underwood of Northwind Portsmouth asked if assessment will include NQA-1?
28. Aleem responded, can't confirm. Not assessing compliance, only looking to get approach. Incorporate into CRAD.
29. Donna responded Part 1 points to Part 2. Doesn't differentiate between safety or non-safety.
30. Yevonne noted, look at contract, what applies for scope of work for site.
31. Donna responded, design of software Part 2.7, doesn't say for safety software. NQA-1 does not integrate with Order. Some people think Part 2.7 is only for safety software. Standard based audience. However DOE wants to use, it is between regulator and contractor for implementation.
32. Yevonne noted, Safety software from DOE O 414.1D, not NQA-1.
33. Teri noted, Chris Beaman would say DOE O for all software.
34. Christian Palay of DOE responded, NQA-1 Part 1 is for safety, Part 2 is for non-safety. Order says to pick consensus standard. Follow for 10 criteria.
35. Aleem noted NQA-1 not make distinction. Order does not make distinction.
36. Corwin noted, QA for nuclear facilities. Not just for safety. NQA-1.



**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**H. Software Types Group Discussion**, led by Carol Olijar of ANL.

1. What does the guide say why it is important?
2. Different types how we categorize
3. % types and I keep for tracking purposes.
4. The one missing is Firmware. How can you evaluated  
Custom Developed  
Configurable  
Acquired
5. Software item could fall into more than one
6. NQA-1
7. What do you do at your site?
8. Custom Developed Built onsite. Our site had to build Example Waste Management System  
Most are custom built
9. Vendor maintain with the latest
10. Configurable  
Buy out of the box  
Example Security Access Control we consider Safety Software used out of the box. Allows you to Configure.
11. Acquired  
You have acquired but cannot change  
Example MACCS@ toolbox code Micro shield  
This is example of software
12. Utility  
Commercial off the shelf can be database Access  
Spreadsheet with complex calculation/macros  
Examples Glovebox Inventory Spreadsheet  
Commercial Design and Analysis  
May be developed for DOE  
Any examples
13. Table 4 from Guide presented
14. Carol showed how to you the Table
15. Put it in the chat now it's your turn
16. Carl Wharton Shared examples of their configurable
17. Contracted with vendor for software on research reactor
18. Carol- created a SOW but she considered the software to be custom.
19. This is where its blurred. If they build according to our design then its custom looked at the same vendor.
20. Corwin Jones- Treated as a custom built but they contracted the labor
21. Teri- Y-12 and Pantex are still developing
22. Greg how about open source?
23. Cristy noted, open source for EPA, safety software how tested on their machine. Vendors use, not familiar with SQA.
24. Geosystem conversation with a vendor on Safety software
25. Corwin- Open source software from the NRC Toolbox

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

It was open source how did they modify won't match NRC software treated as custom software.

Have to treat as developed. They have the source codes so they could do that NRC toolbox calc reactivity. Use in test facilities, safety software. Open source – acquired, engineer modify, treat it like developed software.

26. Calculations on heat exchangers. Sub-contractor, testing of software, calculations for safety software app. Download calcs from EPA. Vendor process on their site. EPA development, open source, still test.
27. They use a test every time they use it.
28. Carol- System computer application how do you do the CGD
29. You probably would have two rows, we have a barcode and we have software that interfaces with it. Example of two software types with the same system
30. We have procurement that we have to follow.
31. Sometimes you will have an accessor combined into
32. In the new draft guide, not published, they only have 3 software types - custom developed, configurable, and acquired, so we're planning on using these to simplify our non-safety processes
33. from Christian Palay to Everyone  
There is no longer any such thing  
There is no new draft guide being published. All work on that draft guide is on hold pending DOE Order 414.1
34. Teri Guide had a lot of good information
35. Teri Configurable software you can just change settings and not code.
36. When is DOE O 414.1E expected to be implemented?  
From Nathaniel Hein to  
The draft guide was excellent and a big improvement over the current one. Disappointing that it's still on hold.
37. Carol to Christian How long before we see the order
38. Christian we are clarifying requirements  
We didn't enter into the decision to abandon the guide lightly the guide was trying to clarify
39. The requirements were not understood or accepted.
40. Christian Item something kind of Wrong with it.  
We tie ourselves in knots
41. Corwin Safety because it falls under NQA-1
42. Carol my site uses extensively leaves a lot into interpretation.
43. Marlene noted draft guide had 3 types. No longer can reference draft guide.
44. Teri noted, configurable change settings, not changing code.
45. NQA-1 Req 5.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**I. Wrap-up, Action Item/New Task Review Teri Vincent, Pantex/Y-12:**

No notes from this agenda item.

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**J. Chat:**

from Carol Olijar to everyone: 9:34 AM

Thank you Cristy, great idea.

from Marlene Underwood to everyone: 9:43 AM

I'm not able to see the slide .. it's just a black square.

from Barbara Siciliano to everyone: 9:44 AM

I can't hear her anymore

from Teri Vincent to everyone: 9:44 AM

Amber - we can't hear you anymore

from Barbara Siciliano to everyone: 9:45 AM

lost Amber on the SBOM category substituting with lower tier supply chain

from Alisa Bandlow SNL to everyone: 9:46 AM

She's at Sandia

from Alisa Bandlow SNL to everyone: 9:46 AM

I'm trying to chat her

from Marlene Underwood to everyone: 9:48 AM

I can see it now

from Christian Palay to everyone: 9:50 AM

Was SOTERIA developed in accordance with DOE Order 414.1D Attachment 2 and/or Attachment 4?

from Kristin Lynn ADAIR to everyone: 9:50 AM

it preceded that order

from Barbara Siciliano to everyone: 9:50 AM

It moved for me...

from Christian Palay to everyone: 9:51 AM

so what?

from Barbara Siciliano to everyone: 9:51 AM

yes

from Barbara Siciliano to everyone: 9:52 AM

yes

from Amber Romero to everyone: 9:52 AM

could the question be re-posted in the chat? I cannot see chats from earlier

from Kristin Lynn ADAIR to everyone: 9:52 AM

so it wasn't developed to meet it but it may meet the need

from Kristin Lynn ADAIR to everyone: 9:53 AM

Was SOTERIA developed in accordance with DOE Order 414.1D Attachment 2 and/or Attachment 4?

from Christian Palay to everyone: 9:54 AM

How was it not developed under SNL's quality assurance program?

from Kristin Lynn ADAIR to everyone: 9:54 AM

It was developed under Sandia's quality assurance program, sorry I misunderstood the question

from Christian Palay to everyone: 9:58 AM

Thank you

from Lincoln Djang to everyone: 10:14 AM

in your experience, what areas are subject to the most change?

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

from Alisa Bandlow SNL to everyone: 10:14 AM

Thank you for the opportunity to present

from Barbara Siciliano to everyone: 10:14 AM

Exactly!!!

from Lincoln Djang to everyone: 10:15 AM

in what you've seen from the subcontractors, what areas have the most similarities? the most static (not really change much from subcontractor to subcontractor?)

from Amber Romero to everyone: 10:18 AM

is this question referring to software scans or more general to the overall background checks?

from Barbara Siciliano to everyone: 10:21 AM

such a good point, Greg. Cybersecurity is spread around and Enterprise Risk analysis is also one of the players...

from Amber Romero to everyone: 10:23 AM

Regarding the former question, I guess I would say that what has become more and more frequent across vendor populations is...more companies with foreign connections, the global economy is REAL

from Donna Riggs to everyone: 10:25 AM

Supply Chain Quality is meeting today.

from Lincoln Djang to everyone: 10:29 AM

thank you!

from Amber Romero to everyone: 10:18 AM

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from Amber Romero to everyone: 10:23 AM

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from Donna Riggs to everyone: 10:25 AM

Supply Chain Quality is meeting today.

from Meri to everyone: 11:43 AM

SQA/Cyber

from Meri to everyone: 11:44 AM

Thank you !

from Carol Olijar to everyone: 11:54 AM

Please reply in chat which break out session you would like to join at 1:30pm for 1) Spreadsheets, 2) Cyber, 3) Cloud.

from Steve Mahnesmith to everyone: 11:54 AM

2nd choice would be SQA/Cyber Security

from Nathaniel Hein to everyone: 12:29 PM

I like Greg's example of how SQA can mitigate some cybersecurity vulnerabilities. On the other hand, I'm concerned that SQA is being expected to integrate cybersecurity requirements somehow. As Corwin is pointing out, at the end of the day cybersecurity requirements are software requirements, not SQA requirements.

from Lincoln Djang to everyone: 12:32 PM

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

Corwin is making good points  
from Faith Girolamo to everyone: 12:33 PM  
Cloud based  
from Adria Johnson to everyone: 12:33 PM  
Please add me to the Cyber/SQA session  
from Terry Scoggins to everyone: 12:33 PM  
Teri, I would like to attend the SQA cyber breakout  
from Faith Girolamo to everyone: 12:34 PM  
I would like the Cyber Security  
from Marlene Underwood to everyone: 12:34 PM  
SQA/Cyber for me please  
from Donald McKinstry to everyone: 12:35 PM  
SQA/Cyber Security...Please  
from Marcell McClure to everyone: 12:35 PM  
SQA Cyber Sec.  
from Chris to everyone: 12:35 PM  
SQA / Cyber  
from Yevonne Deaton to everyone: 12:35 PM  
cloud based  
from Leo Gillen to everyone: 12:35 PM  
SQA please  
from Yevonne Deaton to everyone: 12:35 PM  
Yes please, cloud based for me  
from Yevonne Deaton to everyone: 12:35 PM  
cloud oops not cloud  
from Faith Girolamo to everyone: 12:36 PM  
Faith - SQA/Cyber Please  
from Corwin Jones to everyone: 12:37 PM  
Cyber  
from Marcell McClure to everyone: 12:37 PM  
SQA Cyber  
from Chris to everyone: 12:37 PM  
Cyber  
from Marlene Underwood to everyone: 12:38 PM  
I had to call in so I guess I won't be able to participate  
from Lincoln Djang to everyone: 12:39 PM  
not me. sorry  
from Donna Riggs to everyone: 12:43 PM  
I concur that software requirements need to include the cyber-related requirements explicitly.  
from Lincoln Djang to everyone: 12:56 PM  
sure. that's one way to do it  
from Lincoln Djang to everyone: 12:57 PM  
DOE Order 200.1A  
from Lincoln Djang to everyone: 1:02 PM  
it may be noteworthy that contracts may include or omit DOE Orders in the SQA scope  
from Donna Riggs to everyone: 1:05 PM

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

and they control the licenses, right?

from Donna Riggs to everyone: 1:11 PM

good justification for NOT limiting software inventory to safety software

from Terry Scoggins to everyone: 1:13 PM

Have to jump off for an appointment. Great discussion. I would like to stay involved with this group. Thanks!

from Lincoln Djang to everyone: 1:14 PM

using the engineering change control process is thorough

from Lincoln Djang to everyone: 1:15 PM

the complaint is that the engineering change control process is too much of a burden

from Lincoln Djang to everyone: 1:16 PM

WIPP applies a graded approach for safety and non-safety

from Bryan Coonfield to everyone: 1:16 PM

WRPS, we put all software into one system

from Leo Gillen to everyone: 1:16 PM

PORTS puts all software into one system

from Donna Riggs to everyone: 1:17 PM

IT infrastructure, cyber, SQA

from Lincoln Djang to everyone: 1:18 PM

Teri has identified a clear set of roles and responsibilities for SQA/Cyber integration

from Donna Riggs to everyone: 1:21 PM

Perhaps widening the two-way street could be part of this group's goals?

from Teri Vincent to everyone: 1:22 PM

yes - Donna I think it helps

from Lincoln Djang to everyone: 1:24 PM

i think Donna is right: the goal = the two-way street should be widened

from Carol Olijar to everyone: 1:27 PM

Argonne tracks all software in their inventory that has been vetted that is used for or in support of a nuclear facility.

from Donna Riggs to everyone: 1:28 PM

Yes, through education

from Donna Riggs to everyone: 1:29 PM

If we make the business case then it will be easier to sell at those sites

from Carol Olijar to everyone: 1:30 PM

What is meant by engineering group - development, IT?

from Lincoln Djang to everyone: 1:30 PM

thank you for hosting this for us

from Donna Riggs to everyone: 1:30 PM

I think they mean facility engineering?

from Corwin Jones to everyone: 1:30 PM

Sites have design engineering

from Carol Olijar to everyone: 1:32 PM

ok, thanks.

from Donna Riggs to everyone: 1:32 PM

Hello Aleem!

from Orlando Ferrer to everyone: 1:32 PM

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

We're back from the breaktoun session

from Orlando Ferrer to everyone: 1:32 PM

\*breakout

from Lincoln Djang to everyone: 1:33 PM

i look forward to our next meeting. happy thanksgiving!

from Donna Riggs to everyone: 1:33 PM

Was everybody at his earlier presentation?

from Nathaniel Hein to everyone: 1:34 PM

I missed it.

from Teri Vincent to everyone: 1:50 PM

Boatright, Aleem E (EA)

from Aleem Boatright to everyone: 1:51 PM

Aleem Boatright, 310-525-8868

from Aleem Boatright to everyone: 1:51 PM

aleem.boatright@hq.doe.hov

from Aleem Boatright to everyone: 1:51 PM

aleem.boatright@hq.doe.gov

from Nathaniel Hein to everyone: 1:57 PM

Are there particular orders (upper tier requirements) that are the basis for your assessment of the integration between SQA and cybersecurity?

from Greg Pope to everyone: 1:58 PM

Does the assessment team include Software SME,s

from Marlene Underwood to everyone: 2:02 PM

When using NQA-1 2008/2009 as a consensus standard, for non-safety software can you confirm Part 1 applies and none of Part II (2.7)?

from Corwin Jones to everyone: 2:04 PM

We should review how physical security is associated with physical design with the orders.

from Corwin Jones to everyone: 2:08 PM

Isn't the scope of NQA-1 safety? Scope of DOE order 414 is all QA.

from Corwin Jones to everyone: 2:09 PM

So anything moved off site is not covered?

from Donna Riggs to everyone: 2:12 PM

the audience for NQA-1 is broader than just DOE contractors. The regulators are responsible for ensuring its appropriate use in their situation.

from Carol Olijar to everyone: 2:16 PM

Thank you Aleem.

from Aleem Boatright to everyone: 2:16 PM

Thank you all.

from Marlene Underwood to everyone: 2:16 PM

Thank you!

to Cristy (privately): 2:20 PM

Hi Cristy. Here is reminder you asked for, for you to take notes.

to Teri Vincent (privately): 2:24 PM

Hi Teri. Cristy has graciously agreed to taking notes during my group presentation.

from Marlene Underwood to everyone: 2:48 PM



**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

In the new draft guide, not published, they only have 3 software types - custom developed, configurable, and acquired, so we're planning on using these to simplify our non-safety processes.

from Christian Palay to everyone: 2:49 PM

There is no longer any such thing

from Christian Palay to everyone: 2:56 PM

There is no new draft guide being published. All work on that draft guide is on hold pending DOE Order 414.1E

from Nathaniel Hein to everyone: 2:59 PM

When is DOE O 414.1E expected to be implemented?

from Nathaniel Hein to everyone: 2:59 PM

The draft guide was excellent and a big improvement over the current one. Disappointing that it's still on hold.

from Corwin Jones to everyone: 3:12 PM

I good outline is NRC Inspection Manual 35710

from David Bright to everyone: 3:13 PM

Thank you and take care!

from Meri to everyone: 3:13 PM

Thanks All!

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

**Attendance:**

If anyone attended this meeting but does not see their name on the list on next page, please contact:  
EFCOG SQA Group Secretary: Carol Olijar ([cschultz@anl.gov](mailto:cschultz@anl.gov))

**Attendance varied throughout the day, highest number of attendees: 75.**

\*\*\*There were some on the phone, and others who just gave initials or first name. If you see your phone number listed here or initials, and your name is not within this list, please contact Carol Olijar to add you to Attendance List.

First Name	Last Name	Site
Call-in-User-14	Phone	???
Call-in User-24	Phone	???
Meri		???
Lance	Abbott	SRS
Patrick	Auer	LLNL
Alisa	Bandlow	SNL
Chris	Beaman	DOE
Chris	Beard	???
Todd	Billings	DOE-Hanford
Daniel	Blaj	BNL
Aleem	Boatright	DOE EA
Susannah	Bold	???
David	Bright	LANL
Tom	Bundy	ORNL
Colby	Carter	WIPP
Craig	Clark	???
Ellen	Clark	FBP Portsmouth
Jerry	Clark	???
Bill	Clarno	DOE-RL
Bryan	Coonfield	WRPS
Mary	Curtis	FNAL
Yevonne	Deaton	DOE
Kenneth	Deutsch	???
Lincoln	Djang	WIPP
Orlando	Ferrer	RL
Noah	Ford	???
Mike	Fortier	???
Jennie	Freels	???
Jack	Gerber	???

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

Leo	Gillen	FBP Portsmouth
Faith	Girolamo	SRS
Mindy	Gonzalez	FBP Portsmouth
Vincent	Grosso	DOE-NV
Sarah	Hartson	NNSA-LFO
Jacob	Hayes	Paducah
Nathaniel	Hein	LANL
Gabrielle	Holcomb	DOE
Adria	Johnson	???
Corwin	Jones	LANL
Roberta	Jordan	INL
Brenda	Edward Kirkes	LANL
Valerie	Webb Kline	SNL
Larry	Klingler	???
Trevor	La Pay	???
Natalie	LaRose	???
Kristin	Lynn	ADAIR
Steve	Mahnesmith	SNL
Marcell	McClure	???
Juanita	McKinney	BNL
Donald	McKinstry	LANL
Kathy	Mertens	???
Molly	Miller	???
Carrie	O'Connell	???
Carol	Olijar	ANL
Christian	Palay	DOE
John	Pham	???
Greg	Pope	LLNL
Vicki	Pope	LLNL
Cristy	Renner	Portsmouth
Donna	Riggs	Riggs Consulting
Amber	Romero	???
Michael	Russell	ORNL/Strata-G
Mark	Ryan	???
Terry	Scoggins	ORNL
Nick	Sempowicz	ANL
Tamara	Shokes	INL

**2022 Fall EFCOG Software Quality Assurance (SQA) Community Of Practice (CoP)  
Meeting Notes and Attendance Wednesday November 16, 2022**

Terry	Scoggins	ORNL
Barbara	Siciliano	???
Dave	Thoman	Amentum
Jeni	Turgeon	SNL
Gladys	Udenta	NNSA
Clari	Villanueva	???
Teri	Vincent	Y12/Pantex
Marlene	Underwood	Northwind Portsmouth
Carl	Wharton	???

\*Sorted by Last Name, First Name.