

PDA Webinar: Effectively Using Technology in Remote Audits

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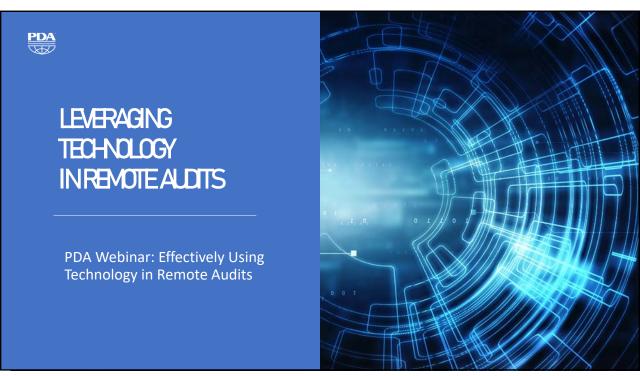
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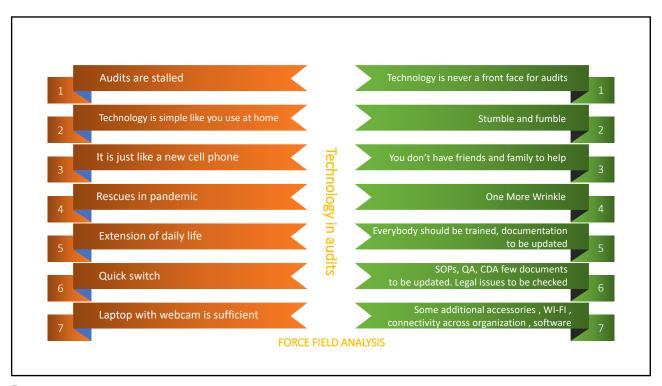
Prashant Sharma ps@zyduscadila.com

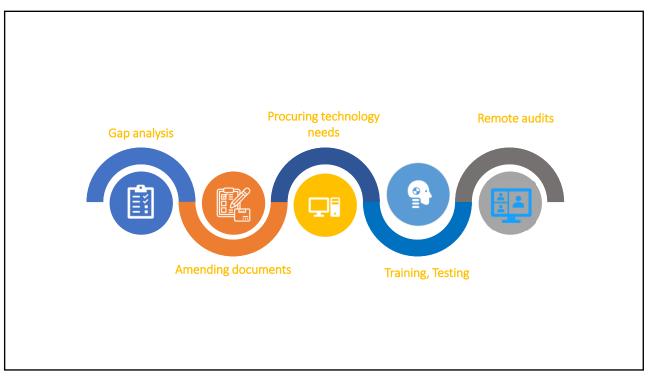
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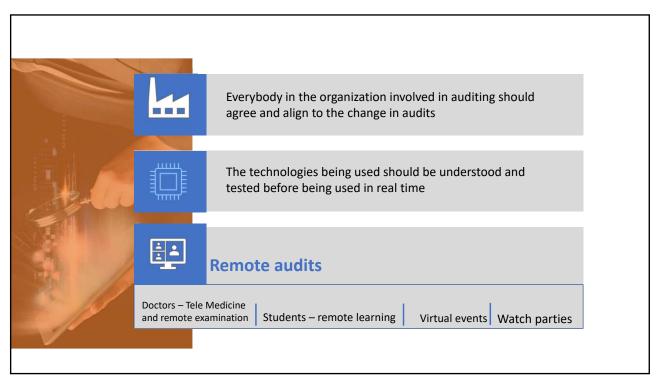


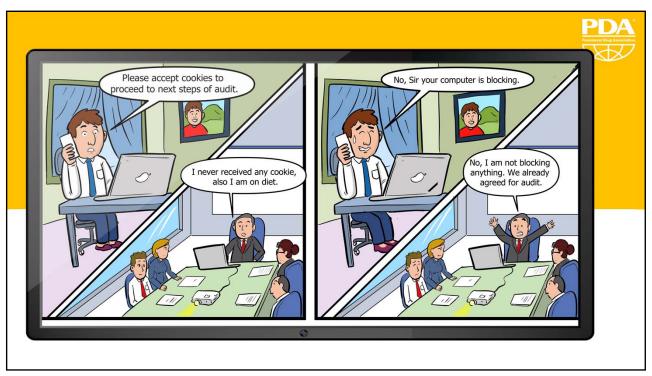


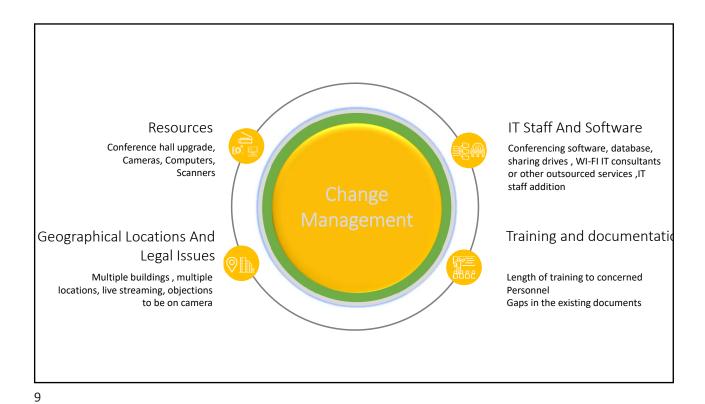












Existing Quality agreements to be amended to

Include usage of technology and list of technologies

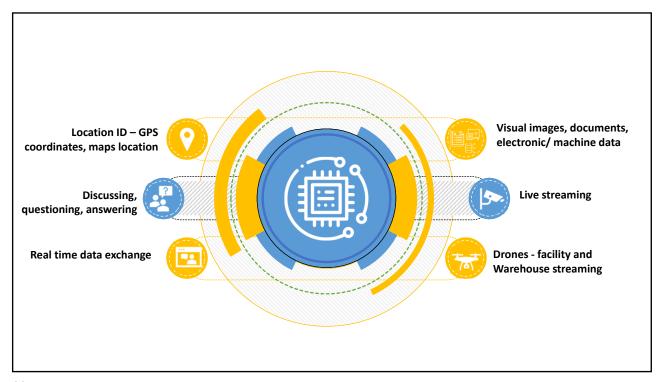
Accept scanned copies equivalent to original copies for audit purpose

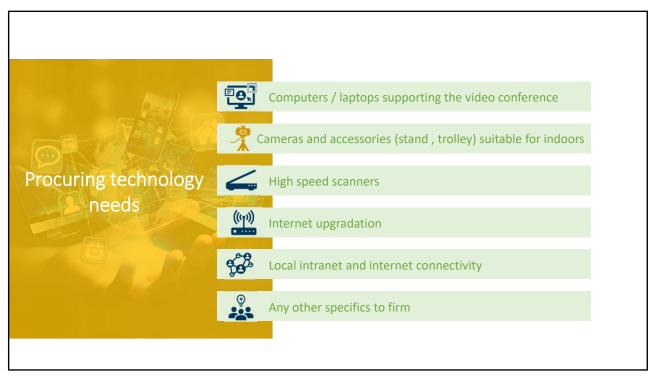
Electronic signatures or any other equivalent

Duration of audit

Pre-audit checklist

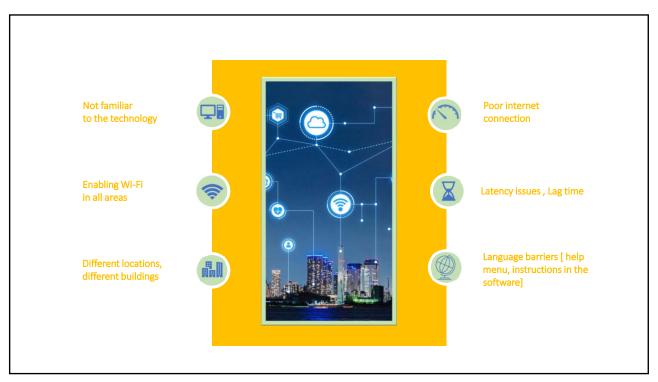
Retention of documents on drive for audit prep and report prep

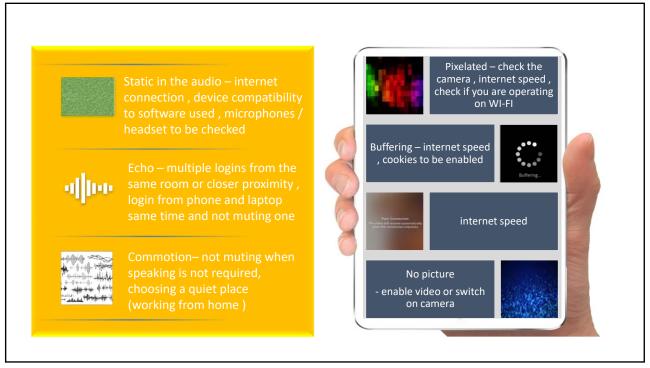




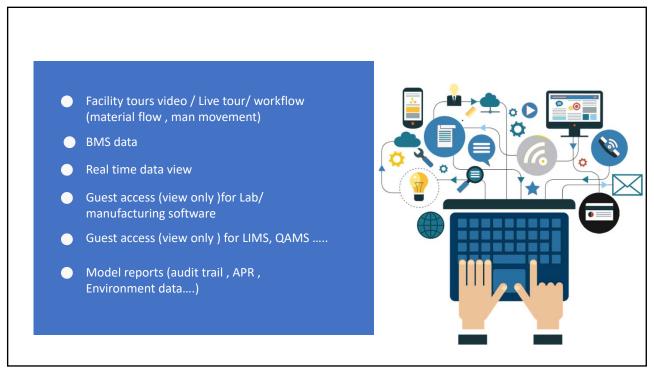


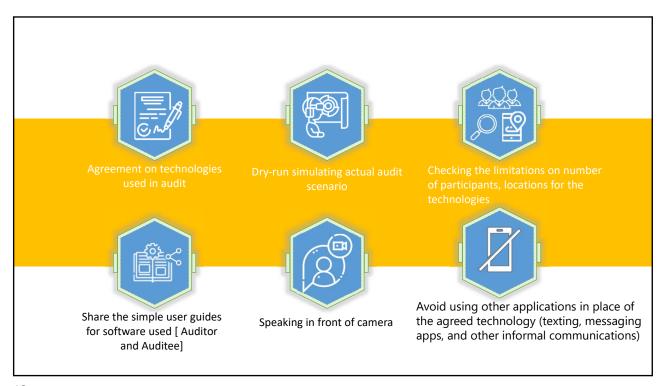


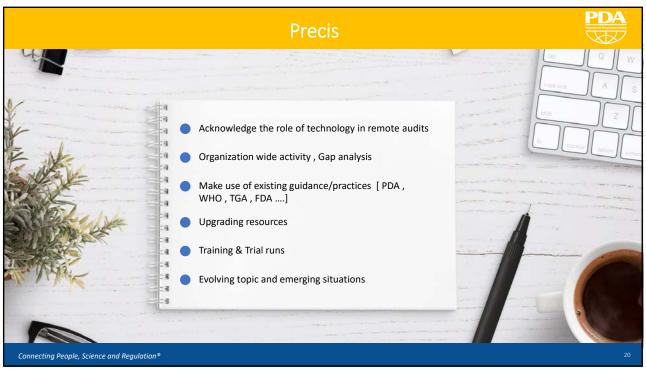
















Training For All The Users On The Technologies

- Not all employees are tech savvy
- Length and mode of training should ensure users are acquainted
- Technological overkill may result in disruptions in audit
- Guide for the auditors on the technologies may be used
- Training on video conferencing expectations

Testing

 Proposed technologies need to be checked for intended usage and scope of usage.







Best Practices: Remote Audits

Technology that Enables an Effective Remote Audit



Best Practices you can implement today By Pete Miller DCS Inc.

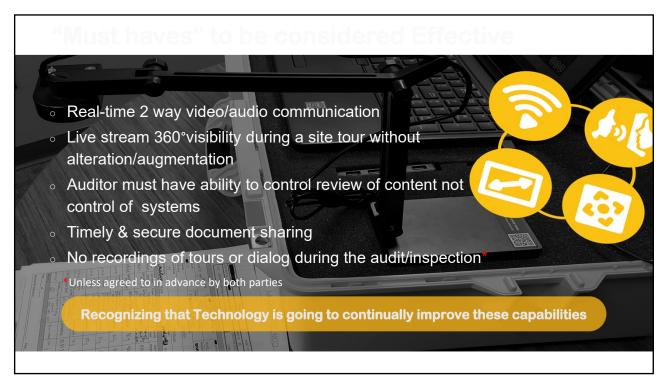
PDA Webinar: Effectively Using Technology in Remote Audits

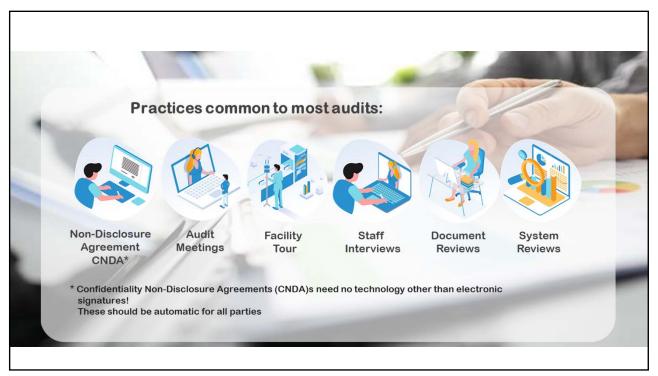
- Shortages of critical drugs and devices due to pandemic restrictions
- Significant financial impact to companies awaiting inspections
- Delays in compliance auditing having a significant cost in lost revenue and opportunities
- The "new normal" clearly includes regular use of remote audits / inspections



Clear Best Practices are essential for industry and Health Care Agencies to move forward







Audit Meetings

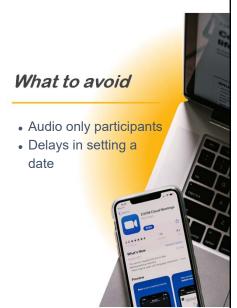
Technology

- Web Conf. application Companies use different platforms
 - Secure & widely used
 - · Easy to set up



Best Practices

- No recording without awareness to both *
- Audio and Video on for ALL parties
- Large monitors 24-27" high resolution, multiple monitors
 - * Unless agreed to in advance by both parties



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Facility Tour

Technology

360 degree camera

- Light weight
- · Easy to use



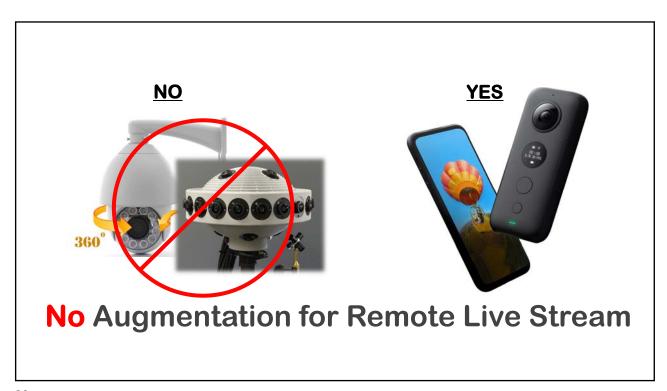
Best Practices

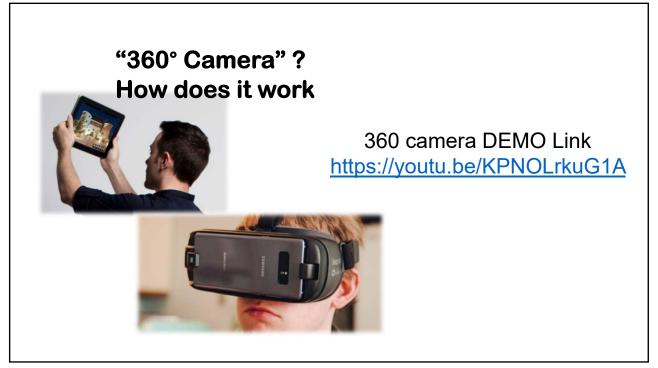
- Must be Live Stream
- Very Low/No Latency (delay) in broadcast
- NO augmentation to what is being viewed
- Real time communication with the tour guide

What to avoid

- Recording the tour *
- Inaccessible areas due to technical limitations
- Spotty connectivity during tour
- Extremely long tours
- Infractions of local privacy laws
- * Unless agreed to in advance by both parties







Staff Interviews and Details

Technology

- Web Conf. application
- Detail camera / Smartphone
 - Light weight
 - Easy to use
- High resolution and low/no latency



Best Practices

- Used anytime there is need for mobility to talk face to face with staff or view details (i.e. placards or equip.)
- Concurrent use with 360
 Camera during site tour
- Make the Detail Camera another attendee in the web conference

What to avoid

- Different camera perspectives
- Auditor not visible
- Inadequate resolution to view details during the tour

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Document Reviews (Paper)

Technology

Document camera for reviewing paper documents

- High resolution
- Creates temporary images or scans for review

Best Practices

- Adjustable to fit larger documents, binders or logbooks
- Fixed point / stationary
 Enables Auditor to
 review multipage
 records

What to avoid

- Inadequate resolution to view documents
- Time consuming scanning if not required

Document Reviews (Electronic Documents)

Technology

Digital Rights Management (DRM) application

- One way sharing
- · Highly secure
- Easily applicable multiple files types
- Enables review without security concerns

Best Practices

- Files are protected prior to sharing and expire after
- View only access No Printing, Downloading, use of watermarks in case of screen capture
- Annotation capable for auditor to make temp highlight and comments

What to avoid

- Direct download access
 - Non-secure Data Rooms
 - Non-secure Cloud Storage
- Collaboration platforms

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System Record Reviews

Technology

Screen Share / Second Screen Software

- Highly available
- Easily accomplished thru web conference application
- Enables review without security / access concerns

Best Practices

- PDF files are generated for any record sharing
- System Subject Matter Expert is present
- Keep requests within the scope of the audit

What to avoid

- Auditors having actual access to system
- Auditors taking screen captures
- Prolonged fishing expeditions by Auditor

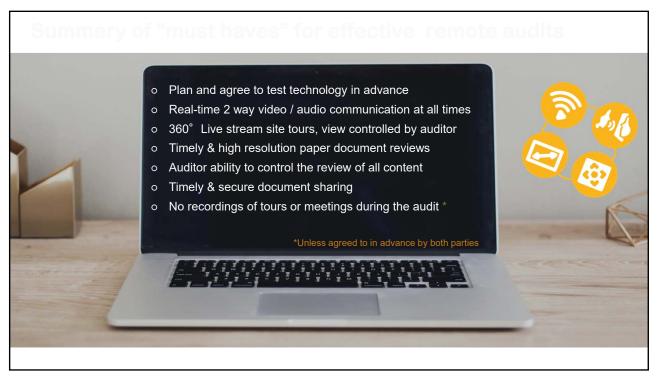
Typically 3rd party auditors are engaged to bring specific technical expertise to the audit.

The parties benefit from the experience of the 3rd party.

Confidentiality and Non-Disclosure Agreements (CNDA)s protect all parties.

The parties are engaged for multiple audits in most cases and the audit sites typically have no concern for indiscriminate disclosures.









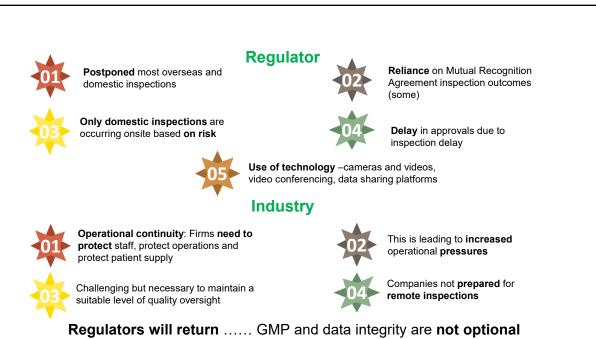




Prashant Sharma

Chief Technical Officer Zydus Cadila Healthcare Limited

- Prashant Sharma is a part of Zydus Senior Leadership Team and manages Group Manufacturing, Site Quality & Operations for Formulations & API at Zydus Cadila. He has been in business roles for over 2 decades and managed Global Supply Chain, Human Resources, Corporate Communications & Operations portfolios in MNCs and Global Indian organizations.
- He believes that Learning Agility & Formative Experiences shape a leader. The foundation for both is a keen desire to keep learning & challenging oneself, taking risks and building teams that perform better than oneself.





Types of remote inspection:

- · Inter company audit e.g. Supplier audit, service providers or vendor by a manufacturer
- · Intra company audit e.g. Corporate audit
- · Regulatory audit e.g. Regulatory agencies/bodies

DESKTOP AUDIT

- Auditor is not physically present at the site(s).
- Responses are shared in written form. e.g. e-mail, shared documentation platform.
- Several iterations of the request possible.
- No real time, phone calls or video conferences take place

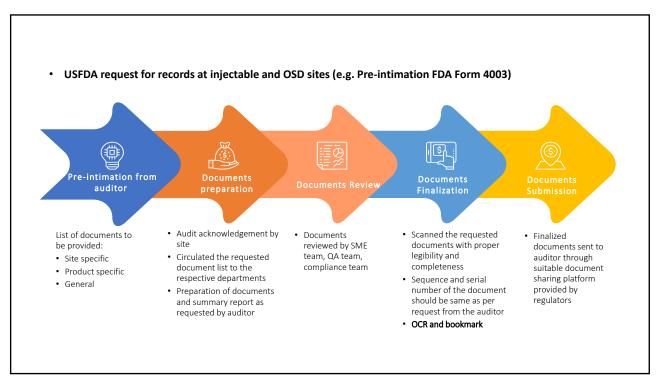
VIRTUAL/ REAL-TIME AUDIT

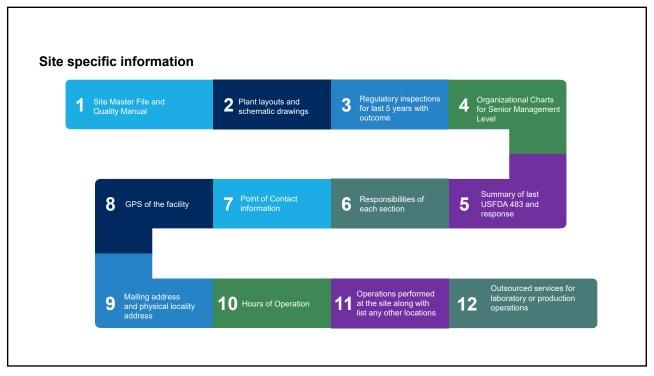
Utilize technologies e.g. live/real-time streaming video technology, screen sharing functionalities or other means of real-time communication.

HYBRID AUDIT

- Partially remote and also includes in-person presence and on-site visit by the auditing body.
- Virtual and the in-person assessment may be concurrent or at different times e.g. a portion of audit is performed virtually or desktop, followed by a second portion on-site







Product specific information



List of changes to manufacturing processes



List of deviations, OOS, OOT, customer complaints, recalls, FARs



Sampling Procedure of Bulk, In-Process, Finished Product, Stability and other sample along with sampling diagrams



List of laboratory instrument along with last qualification and calibration dates used for in-process, release and stability testing of particular product



Equipment qualification reports for filling line

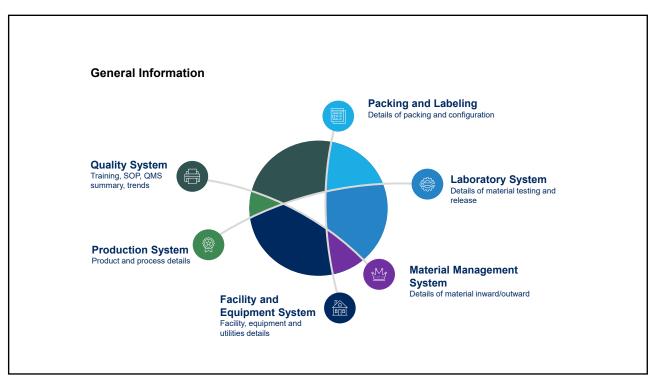


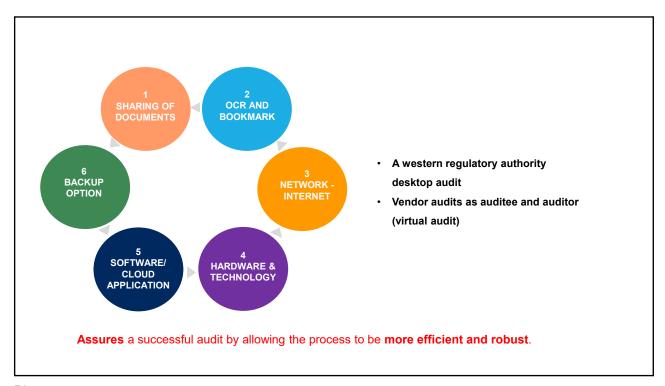
Cleaning procedures and cleaning validation protocol and report of compounding tank and filling line used for particular product

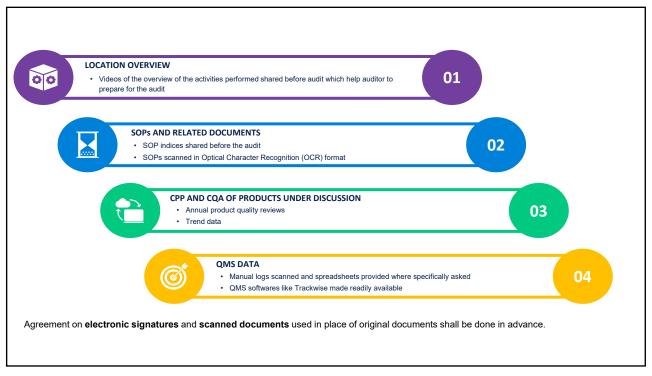


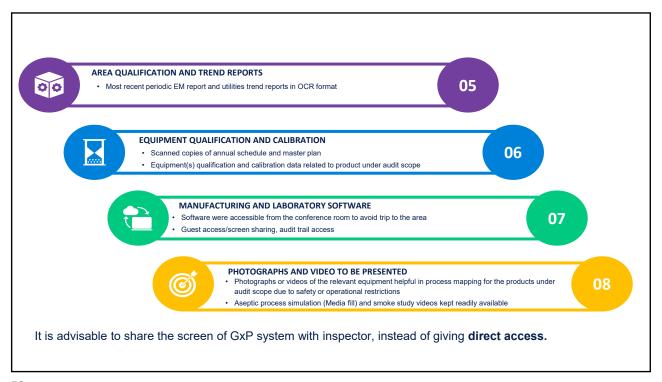
HEPA filter qualification protocol and report

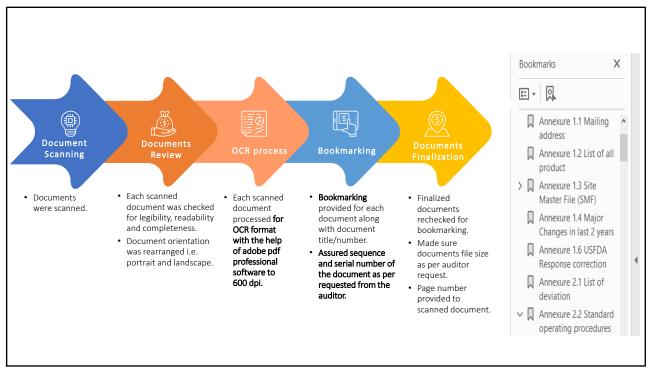


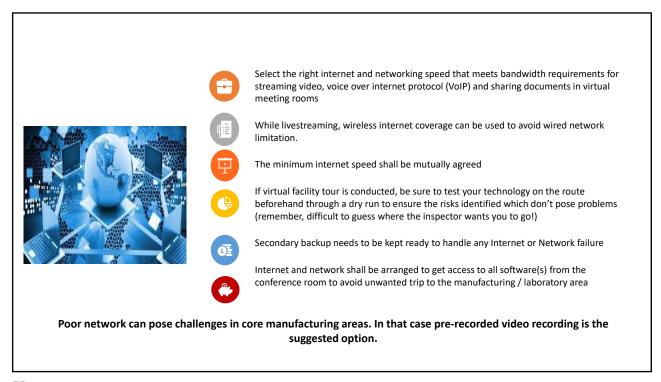




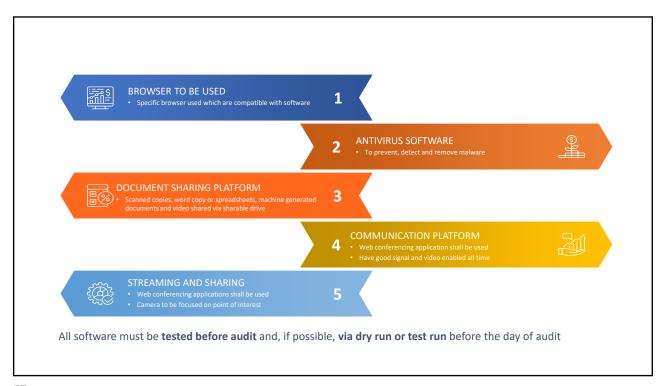




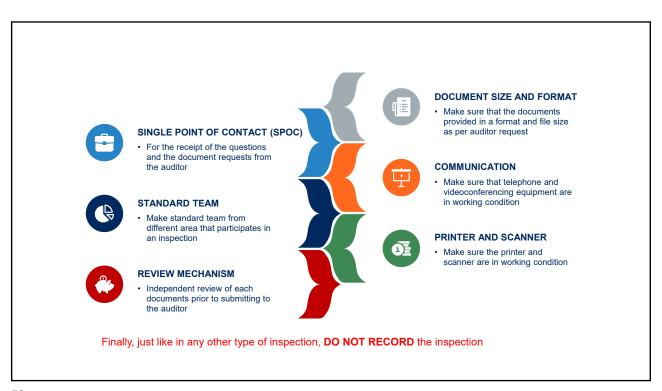












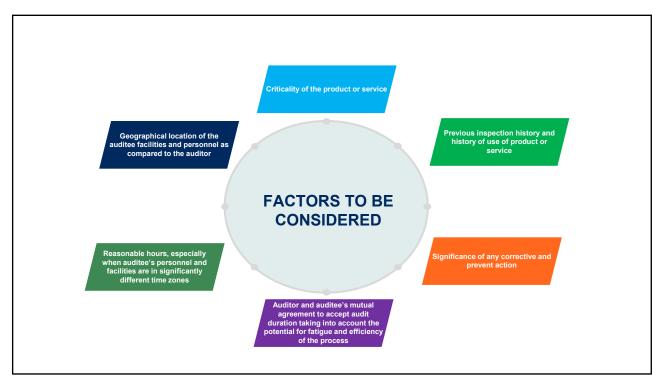




- · Secondary backup needs to be kept ready to handle any technology failure (Server)
- Limited Wi-Fi network coverage and/or mobile phone cannot be used in areas with risk
 of explosion and aseptic area
- · If inspector insists to inspect aseptic or risk of explosion area then
 - o Wide angle camera shall be used for aseptic area
 - o Fireproof camera can be used for risk of explosion area
 - o Virtual tour during non production hours in explosion sensitive area
- The level of **scrutiny possible** in a remote inspection may not always be equivalent to an on-site inspection
- It is highly dependent on the technology available (e.g. use of live stream, high resolution video etc.)

Case Study:

In late 2009 the FDA issued a press release warning of an impersonation scam. By impersonating an inspector, a person could gain access to records, trade secret and confidential information and engage in industrial espionage.



Opening Meeting

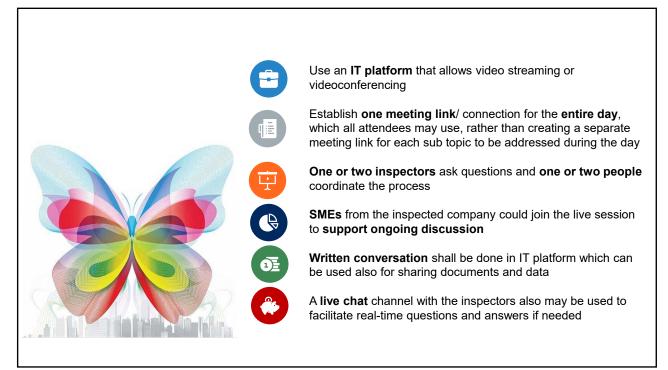
- · Time should be specifically scheduled for introductions for everyone on the call
- · Consider pre-recording videos for the facility overview
- Discuss contingency planning for technological or other issues
- · Make it clear that it is acceptable for beverages to be sipped as necessary and appropriate

Daily close-out Meeting

- · Plan for the daily close out meetings to be a reiteration of findings shared during the day
- It should be concise, short in duration and scheduled following the completion of the daily audit
- · Discuss auditor need to allow the auditee to prepare for the next day of the audit

Wrap-up Meeting

- · A high level overview of the compliance issues identified with specific checks for understanding
- Provide verbal feedback on positive aspects of the audit
- · Auditee may request clarification of findings
- · Inspector should communicate the path forward for the inspection response process





- Consider whether additional time may be required to provide evidence of correction of findings and observations
- Tracking and Follow-up for compliance
- On site inspection may be required if it is not possible to verify compliance status remotely

Post audit activities are generally similar to on site audit process

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Team of teams approach shall always prevail

Contact: ps@zyduscadila.com

Thank you