
Alternative Tools: Assessing Drug Manufacturing Facilities Identified in Pending Applications Guidance for Industry

DRAFT GUIDANCE

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**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

**September 2023
Pharmaceutical Quality/Manufacturing Standards (CGMP)**

Alternative Tools: Assessing Drug Manufacturing Facilities Identified in Pending Applications Guidance for Industry

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1 **Alternative Tools: Assessing Drug Manufacturing Facilities**
2 **Identified in Pending Applications**
3 **Guidance for Industry¹**
4

5
6 This draft guidance, when finalized, will represent the current thinking of the Food and Drug
7 Administration (FDA or Agency) on this topic. It does not establish any rights for any person and is not
8 binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the
9 applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible
10 for this guidance as listed on the title page.
11

12
13
14
15 **I. INTRODUCTION**
16

17 The purpose of this guidance is to provide information to applicants on how FDA intends to use
18 alternative tools² to assess manufacturing facilities³ identified in a marketing application (i.e., a
19 new drug application (NDA), an abbreviated new drug application (ANDA), a biologics license
20 application (BLA), or a supplement to any of these types of applications). As part of the
21 negotiations relating to the reauthorization of the Prescription Drug User Fee Act (PDUFA) and
22 the Biosimilar User Fee Act (BsUFA), as described in “PDUFA Reauthorization Performance
23 Goals and Procedures Fiscal Years 2023 Through 2027” (PDUFA VII commitment letter)⁴ and
24 “Biosimilar Biological Product Reauthorization Performance Goals and Procedures for Fiscal
25 Years 2023 Through 2027” (BsUFA III commitment letter),⁵ FDA agreed to issue guidance on
26 the use of alternative tools to assess manufacturing facilities named in pending applications and
27 to incorporate best practices from the use of such tools during the Coronavirus Disease 2019
28 (COVID-19) pandemic.
29

30 This guidance, within the context of approval and licensure decisions by FDA, describes the use
31 of alternative tools to assess manufacturing facilities identified in an NDA, an ANDA, or a BLA⁶
32 to establish that these facilities meet the applicable requirements, including under section
33 501(a)(2)(B) of the Federal Food, Drug, and Cosmetic Act (FD&C Act) (21 U.S.C. 351(a)(2)(B))

¹ This guidance has been prepared by the Office of Pharmaceutical Quality in the Center for Drug Evaluation and Research in cooperation with the Center for Biologics Evaluation and Research and the Office of Regulatory Affairs at the Food and Drug Administration.

² In this guidance, the term *alternative tools*, as described further within, refers to methods used by FDA in advance or in lieu of an inspection or to support an inspection of a drug manufacturing facility and assess compliance with applicable laws and regulations.

³ In this guidance, the terms *facility* and *establishment* are synonymous (see the definitions for establishment in 21 CFR 207.1 and 600.3(w)).

⁴ See Section II.N.3 of the PDUFA VII commitment letter available at <https://www.fda.gov/media/151712/download>.

⁵ See Section II.B.2. of the BsUFA III commitment letter available at <https://www.fda.gov/media/152279/download>.

⁶ This guidance fulfills PDUFA VII and BsUFA III commitments applicable to NDAs and BLAs. However, FDA also continues to use alternative tools to support the assessment of all drug application types, including ANDAs.

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34 and either 505 of the FD&C Act (21 U.S.C. 355) or section 351 of the Public Health Service Act
35 (PHS Act) (42 U.S.C. 262).

36

37 This guidance does not apply to other drug⁷ inspection programs including:

38

39 • Postapproval inspections

40 • Surveillance inspections

41 • Follow-up and compliance inspections (e.g., for-cause inspections)

42 • Bioresearch monitoring inspections⁸

43

44 In general, FDA’s guidance documents do not establish legally enforceable responsibilities.

45 Instead, guidances describe the Agency’s current thinking on a topic and should be viewed only

46 as recommendations, unless specific regulatory or statutory requirements are cited. The use of

47 the word *should* in Agency guidances means that something is suggested or recommended, but

48 not required.

49

50

II. BACKGROUND

51

52

53 The Prescription Drug User Fee Act of 1992 (PDUFA)⁹ amended the FD&C Act to authorize

54 FDA to assess and collect user fees¹⁰ from companies who produce certain human drugs. Since

55 the passage of PDUFA, user fees have played an important role in supporting the drug approval

56 process, and user fee programs have been established by Congress to support certain FDA

57 activities related to several other types of medical products, including medical devices, generic

58 drugs, and biosimilar biological products.¹¹ These fees have helped FDA fulfill its mission of

59 protecting the public health and promoting timely market availability of FDA-regulated products

60 without compromising the Agency’s commitment to scientific integrity, public health, regulatory

61 standards, and patient safety. Reauthorization of FDA’s medical product user fee programs

62 continues FDA’s authority to assess and collect these user fees. Most recently, the FDA User

63 Fee Reauthorization Act of 2022 reauthorized FDA’s human drug and device user fee

64 programs.¹² The PDUFA VII and BsUFA III commitment letters applicable to this latest

65 reauthorization build upon previous FDA performance goals and program enhancements to

66 facilitate timely access to safe, effective, high quality, and innovative new medicines for patients.

⁷ In this guidance, the term *drug* includes biological products.

⁸ Section 3612 of the Food and Drug Omnibus Reform Act of 2022 amended the Federal Food, Drug, and Cosmetic Act (FD&C Act) to add section 704(a)(5)(C) clarifying FDA’s authority to conduct bioresearch monitoring inspections; however, in this guidance, bioresearch monitoring inspections are considered out of scope.

⁹ Title I, the Prescription Drug User Fee Act of 1992, of Public Law 102-571.

¹⁰ User fees are available for obligation in accordance with appropriations acts.

¹¹ See sections 738, 744B, and 744H of the FD&C Act (21 U.S.C. 379j, 21 U.S.C. 379j–42, and 21 U.S.C. 379j–52), respectively.

¹² See titles I through IV of Division F (the FDA User Fee Reauthorization Act of 2022) of the Continuing Appropriations and Ukraine Supplemental Appropriations Act, 2023.

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67 During the COVID-19 pandemic, FDA expanded its use of alternative tools to evaluate drug
68 manufacturing facilities to support regulatory decision-making when facility inspections were
69 not feasible. In the PDUFA VII and BsUFA III commitment letters, FDA agreed to issue
70 guidance on the use of alternative tools, incorporating best practices from the use of such tools
71 during the COVID-19 pandemic, to assess manufacturing facilities named in pending
72 applications as part of FDA’s normal operations beyond the COVID-19 public health
73 emergency.^{13,14}

74

75 The following alternative tools were used during the public health emergency:

76

77 • Requesting records and other information, pursuant to section 704(a)(4) of the FD&C Act
78 (21 U.S.C. 374(a)(4)), directly from facilities and other entities subject to inspection¹⁵

79

80 • Performing remote interactive evaluations (RIEs) (e.g., remote livestreaming video of
81 operations, teleconferences, screen sharing)

82

83 • Requesting existing inspection reports and other information from trusted foreign
84 regulatory partners through mutual recognition agreements and other agreements

85

86 FDA has strategically used these tools within the context of decisions related to preapproval
87 inspections (PAIs) or prelicense inspections (PLIs) to maximize facility evaluation efficiency as
88 part of appropriate, risk-based assessments. Given the success of these innovative approaches,
89 the Agency intends to continue risk-based use of these alternative tools and to apply certain
90 virtual technological capabilities within a specific inspectional context defined within this
91 guidance. When used in advance or in lieu of PAIs and PLIs or to support PAIs and PLIs, the
92 appropriate use of these approaches will help FDA maintain operational flexibility to support
93 timely facility evaluations and application decisions.

94

95

III. RISK-BASED USE OF ALTERNATIVE TOOLS

96

97
98 FDA generally conducts a PAI or a PLI to ensure that any facility named or referenced in an
99 application can perform the proposed manufacturing operations in conformance to the current
100 good manufacturing practice (CGMP) requirements,¹⁶ to confirm that data submitted in the

¹³ In this guidance, FDA refers to *normal operations* as the circumstances in which the COVID-19 public health emergency under section 319 of the Public Health Service Act (PHS Act) (42 U.S.C. 347d) has expired. The tools and discretion available to FDA in response to a public health emergency are beyond the scope of this guidance.

¹⁴ See Section II.B.2. of the BsUFA III commitment letter and Section I.N.3. of the PDUFA VII commitment letter.

¹⁵ Section 704(a)(4) of the FD&C Act gives FDA the authority to request from a drug or device establishment or a site or facility subject to bioresearch monitoring inspections—and requires a person who owns or operates such an establishment, site, or facility to provide—any records or other information that FDA may inspect under section 704 in advance of or in lieu of an inspection.

¹⁶ In this guidance, *current good manufacturing practice (CGMP)* refers to the requirements in section 501(a)(2)(B) of the FD&C Act and in 21 CFR parts 4, 210, 211, and 600 through 680, as applicable.

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101 application are accurate and complete,¹⁷ to verify conformance to the application, and to assess a
102 facility's ability to develop and manufacture drugs of consistent quality.¹⁸ In some instances,
103 FDA may determine that a PAI or a PLI may not be needed if sufficient information is otherwise
104 available to FDA demonstrating the facility's ability, with respect to a drug's manufacturing, to
105 ensure and preserve the drug's identity, strength, quality, and purity¹⁹ (for an application subject
106 to section 505 of the FD&C Act) or to ensure product safety, purity, and potency²⁰ (for an
107 application subject to section 351 of the PHS Act).

108
109 During an application assessment, FDA conducts a product quality assessment to identify
110 potential risks to product quality, including any product-specific risks; manufacturing process
111 and control risks; or facility risks, that would be cause for an inspection. Potential sources of
112 product quality or facility-related risks can include the following: (1) gaps in the current
113 scientific knowledge or manufacturing process understanding, (2) new technologies or dosage
114 forms, (3) manufacturing process complexities, (4) limited commercial manufacturing
115 experience, and (5) issues identified from previous FDA inspections or from information
116 provided by trusted foreign regulatory partners. FDA uses a risk-based approach to determine
117 when an inspection in support of an application is necessary.

118
119 FDA intends to evaluate all risks or urgencies on a case-by-case basis and consider factors,
120 including any or a combination of the following, to discern when the use of alternative tools may
121 be appropriate in advance or in lieu of an inspection or to support a PAI or a PLI:

- 122
- 123 • The facility has a drug inspection history (FDA and/or a trusted foreign regulatory
124 partner under a mutual recognition agreement or other agreement), and the proposed
125 operations in the application are the same as or sufficiently related to existing operations
126 covered in previous inspections.
 - 127
 - 128 • The application-specific risks or applicable facility operations can be adequately assessed
129 through alternative tools.
 - 130
 - 131 • The product addresses an urgent need (e.g., a critical public health need, a pervasive drug
132 shortage, or other unforeseen situations).
 - 133

¹⁷ See the guidance for industry *Data Integrity and Compliance With Drug CGMP Questions and Answers* (December 2018). We update guidances periodically. For the most recent version of a guidance, check the FDA guidance web page at <https://www.fda.gov/regulatory-information/search-fda-guidance-documents>.

¹⁸ FDA uses drug and biologics compliance programs to guide the conduct of preapproval and prelicense inspections. Drug compliance programs are available at <https://www.fda.gov/drugs/guidance-compliance-regulatory-information/drug-compliance-programs>. Biologics compliance programs are available at <https://www.fda.gov/vaccines-blood-biologics/enforcement-actions-cber/compliance-programs-cber>.

¹⁹ See sections 505(d)(3) and 505(j)(4)(A) of the FD&C Act.

²⁰ See section 351(a)(2)(C)(i) of the PHS Act.

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- 134 • An inspection is not feasible as a result of travel limitations (e.g., pandemics, natural
135 disasters, other unstable situations preventing travel).

136
137 This is not a comprehensive list, given the constantly evolving unique considerations that may
138 arise during a particular application assessment.

IV. CONSIDERATIONS FOR ALTERNATIVE TOOLS

141
142 FDA will consider using alternative tools for an application’s facility evaluation, as appropriate
143 and on a case-by-case basis, in advance or in lieu of an inspection or to support a PAI or a PLI.
144 Because FDA may choose to inspect and/or to use an alternative tool at any point in the
145 application assessment cycle,²¹ FDA expects all manufacturing, packaging, and control sites for
146 drug substance and drug product facilities to be ready for inspection at the time of application
147 submission.²² FDA does not intend to grant requests from applicants or facilities for FDA to use
148 alternative tools. Such decisions depend on many factors and may include information bearing
149 on internal Agency practices, and it would not be feasible to establish a request-based program.

150
151 Based on any or a combination of specific risks or urgencies described above, FDA may choose
152 to use one or more alternative tools to aid in its application facility evaluation of whether the
153 methods used in and the facilities and controls used for the manufacturing, processing, packing,
154 and testing of a drug are adequate to ensure and preserve the drug’s identity, strength, quality,
155 and purity²³ or to ensure and preserve the drug’s safety, purity, and potency.²⁴ FDA may use
156 alternative tools to assess whether facilities named in the application can perform the proposed
157 manufacturing operations in conformance to the application and in compliance with applicable
158 requirements, including the CGMP requirements for drug manufacturing.

A. Remote Regulatory Assessments

160
161
162 To examine an application product, a facility, or a manufacturing process and its controls, FDA
163 may choose to initiate a remote regulatory assessment (RRA). An RRA is an examination of an
164 FDA-regulated establishment and/or its records, conducted entirely remotely, to evaluate
165 compliance with applicable FDA requirements. An RRA complements FDA’s authority to
166 conduct inspections under section 704(a)(1) of the FD&C;²⁵ however, in certain circumstances,
167 records or other information obtained through an RRA (for example, under section 704(a)(4) of

²¹ FDA does not intend to simultaneously conduct a remote regulatory assessment (RRA) and an inspection of a facility. See Section III.A.6. of the draft guidance for industry *Conducting Remote Regulatory Assessments Questions and Answers* (July 2022). When final, this guidance will represent the FDA’s current thinking on this topic.

²² For more information regarding which facilities should be listed in Field 28 of the “Establishment Information” section of Form FDA 356h, titled *Application to Market a New or Abbreviated New Drug or Biologic for Human Use* (available at <https://www.fda.gov/media/72649/download>), see the guidance for industry *Identification of Manufacturing Establishments in Applications Submitted to CBER and CDER Questions and Answers* (October 2019).

²³ See sections 505(d)(3) and 505(j)(4)(A) of the FD&C Act. See also 21 CFR 314.105.

²⁴ See section 351(a)(2)(C)(i) of the PHS Act and 21 CFR 601.2(d).

²⁵ FDA generally considers an inspection, such as described in section 704(a)(1) of the FD&C Act, to involve duly designated officers or employees of FDA physically entering (at reasonable times and in a reasonable manner) an establishment subject to regulation under the FD&C Act.

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168 the FD&C Act)²⁶ may provide information similar to what would generally be evaluated on a
169 PAI or a PLI or used to resolve application-specific deficiencies identified during a PAI or a PLI,
170 as further described below. For example, FDA may use an RRA to assess an application-specific
171 risk or to gather information sought relative to a facility evaluation.

172
173 An RRA may be conducted by employing the following alternative tools individually or in
174 combination, as appropriate, to meet the needs of the assessment:

- 175
176 • Pursuant to section 704(a)(4) of the FD&C Act, requesting from the owner or operator of
177 a drug facility, records or other information that are subject to inspection under section
178 704²⁷
- 179
180 • Conducting an RIE during application assessment²⁸

181
182 For an RRA conducted under section 704(a)(4) of the FD&C Act, a response from the facility is
183 mandatory.²⁹ Upon receipt of a section 704(a)(4) request from FDA, each facility should
184 carefully consider FDA’s specific request and provide a response in the specified time frame
185 with sufficient information to adequately satisfy the request. The types of records and
186 information requested can vary based on the product, the facility, and manufacturing process and
187 its controls, but may include, as applicable, equipment records, process validation records and
188 reports, test results, deviations and associated reports, complaints, or other information related to
189 compliance with the CGMP requirements and other applicable FDA requirements. The Agency
190 may seek a teleconference or a virtual meeting for clarification of the records and other
191 information sought by the Agency pursuant to section 704(a)(4) if the response does not
192 sufficiently address FDA’s request. Refusing to permit access to records as required by section
193 704(a), including section 704(a)(4), is a prohibited act,³⁰ and supplying insufficient information
194 may: (1) delay application action if FDA does not have enough information to make a regulatory
195 determination; (2) result in FDA sending a complete response letter³¹ to the applicant if FDA

²⁶ As indicated in footnote 15, section 704(a)(4) of the FD&C Act gives FDA the authority to request from a drug or device establishment or a site or facility subject to bioresearch monitoring inspections—and requires a person who owns or operates such an establishment, site, or facility to provide—any records or other information that FDA may inspect under section 704 in advance of or in lieu of an inspection. Section 704(a)(4), as amended by the Food and Drug Omnibus Reform Act of 2022, clarifies that FDA “may rely on any records or other information that [FDA] may inspect under [that] section to satisfy requirements that may pertain to a preapproval or risk-based surveillance inspection, or to resolve deficiencies identified during such inspections, if applicable and appropriate” (section 704(a)(4)(C)).

²⁷ FDA uses Form FDA 4003, titled *FDA Inspection Records Request*, to request records or other information from drug establishments pursuant to section 704(a)(4) of the FD&C Act. A request under section 704(a)(4) may be used to support products named in multiple applications manufactured at one establishment. In this situation, one Form FDA 4003 will generally be issued to the establishment to cover requests for records or other information for all the products in the applications being assessed.

²⁸ FDA will not issue a Form FDA 482, titled *Notice of Inspection*, to announce or open a remote interactive evaluation.

²⁹ See section 704(a)(4)(A) of the FD&C Act.

³⁰ See section 301(e) of the FD&C Act (21 U.S.C. 331(e)).

³¹ See the definition for *complete response letter* in 21 CFR 314.3(b) and 21 CFR 600.3(ll). See also 21 CFR 314.110 and 21 CFR 601.3.

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196 cannot confirm that application deficiencies have been satisfactorily addressed; or (3) carry other
197 potential regulatory or legal consequences.³²

198
199 In contrast, a facility's participation in an RIE is voluntary. FDA generally may seek to conduct
200 an RIE when visual observation (e.g., product, facility, manufacturing operations, records, and
201 other documents) and virtual engagement with facility staff may help the Agency make an
202 application decision. Each facility should assess its capability to interact with FDA using
203 technologies such as remote livestreaming, teleconferences, and screen sharing and determine
204 whether the facility can meet FDA's request. If a facility is unable to support a virtual
205 interaction or if FDA determines that virtual interaction during an RIE does not permit a
206 sufficient examination of the facility or of a corrective action, FDA may terminate the RIE and
207 instead conduct an inspection or use other available tools.³³ A facility may decline participation
208 in an RIE (or a particular RIE request) before or during the RIE; however, FDA may not be able
209 to complete its facility evaluation until it uses other oversight tools. An RIE may be the quickest
210 means for FDA to assess a facility's activities, especially when factors prevent FDA from
211 conducting a timely facility inspection. As such, declining to participate in an RIE may prolong
212 a decision on an application.

213
214 For additional recommendations on how to prepare for an RRA and for communication
215 expectations after FDA requests, initiates, or conducts an RRA, applicants and facilities should
216 refer to the draft guidance for industry *Conducting Remote Regulatory Assessments Questions*
217 *and Answers* (July 2022) or any successor guidance.

B. Inspections Conducted by Trusted Foreign Regulatory Partners

218
219
220
221 Section 809 of the FD&C Act (21 U.S.C. 384e) authorizes FDA to enter into arrangements and
222 agreements with a foreign government or an agency of a foreign government to recognize the
223 inspection of foreign establishments registered under section 510(i) of the FD&C Act (21 U.S.C.
224 360(i)) if FDA determines that those authorities are capable of conducting inspections that meet
225 U.S. requirements.³⁴ Although FDA has not to date recognized PAIs or PLIs conducted by a
226 foreign regulatory authority in the context of a section 809 mutual recognition agreement, FDA
227 does collaborate with regulatory authorities and assesses shared inspection information to
228 support application decisions.

³² See section 501(j) of the FD&C Act, relating to adulterated drugs, and section 801(a) of the FD&C Act (21 U.S.C. 381(a)), relating to imports. Imported drugs from an establishment may be subject to refusal (for example, if they appear to be adulterated).

³³ The guidance for industry *Remote Interactive Evaluations of Drug and Manufacturing and Bioresearch Monitoring Facilities During the COVID-19 Public Health Emergency* (April 2021) includes additional information on how to plan and prepare for an RIE. As described in the *Federal Register* of March 13, 2023 (88 FR 15417), FDA issued this guidance to address the circumstances of the public health emergency and revised it to continue in effect for 180 days after the COVID-19 public health emergency declaration expired on May 11, 2023. As further described in the document, FDA intends to revise this guidance with any appropriate changes based on comments received and the Agency's experience with implementation.

³⁴ FDA's mutual recognition agreements with the European Union, Switzerland, and the United Kingdom provide for the acceptance of official inspection reports issued by a regulatory partner for manufacturing facilities located inside and outside of the partner's territory. For more information, see <https://www.fda.gov/international-programs/international-arrangements/mutual-recognition-agreement-mra> and <https://www.fda.gov/media/103391/download>.

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1. Information Sharing by Trusted Foreign Regulatory Partners

FDA may request an existing drug inspection report and other information from a foreign partner through mutual recognition and other arrangements or agreements to assess a facility's previous inspection history, to describe a facility's current state of CGMP control, and to determine whether the inspection covered the proposed manufacturing operations described in an application.³⁵ When a facility does not have an FDA inspection history or if prior FDA inspection coverage was limited, these reports help inform the Agency's determination of: (1) whether a PAI or a PLI may not be needed in certain circumstances, or (2) if additional information is needed to adequately assess the facility through an inspection or an RRA. FDA may request additional records and information through a section 704(a)(4) records request if the inspection report does not adequately address the application product, facility, or process-related risks.

2. Foreign Regulatory Inspections With FDA Remote Participants

The widespread use of innovative regulatory approaches and virtual interactive tools by foreign regulators may provide an opportunity for increased inspection collaboration between regulatory authorities and for harmonized marketing authorization decisions for drug products. FDA is evaluating the utility of collaborative assessments with regulatory partners for PAIs and PLIs when regulatory agencies have a mutual interest in a facility and/or a drug(s). A collaborative assessment may include a combination of an on-site lead inspectorate and one or more participating remote regulatory authorities connecting through virtual interactive technologies.

Implementation of these collaborative assessments may help FDA streamline operations and overcome logistical travel challenges by leveraging local inspection teams and virtual interactive technologies to obtain information to support regulatory decisions. In addition, regulator collaboration may facilitate timely availability of critical drugs in multiple markets globally and reduce inspection redundancy for the same product and facility. At the time of issuance of this guidance, FDA is conducting a pilot project³⁶ in this area and intends to use information and experience gained from ongoing collaborative assessment activities to inform FDA's future decision-making on this topic.

C. PAIs and PLIs With FDA Remote Subject Matter Experts

As the Agency has gained experience with virtual interactive technologies, FDA sees the potential benefit of using these technologies to meet technical and logistical needs in certain circumstances by supplementing an inspection with remote resources. As a result, FDA intends to make the expertise of remote personnel available to on-site FDA inspection teams to support

³⁵ Section 809 of the FD&C Act authorizes FDA to rely on inspections performed by capable foreign regulatory partners. In the absence of FDA's capability determination, FDA intends to use inspection reports of other foreign regulatory partners as a source of information in evaluating an application.

³⁶ FDA is a participating member of the International Coalition of Medicines Regulatory Authorities that is piloting a program for collaborative hybrid inspections by multiple regulatory authorities. For more information, see <https://icmra.info/drupal/en/strategicinitatives/pqkms>.

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268 PAIs and PLIs and to facilitate regulatory decision-making and timely application decisions.³⁷
269 This enhancement will help FDA maintain operational flexibility through enhanced efficiency
270 and transparency.

271
272 For the purpose of the Agency’s application decision, FDA may consider supplementing a PAI
273 or a PLI with remote resources when: (1) the expertise and input of a subject matter expert
274 (SME) is determined by the on-site inspection team lead to be necessary to adequately assess an
275 application product, a manufacturing process and its controls, or a facility, and to verify
276 conformance to the application and compliance with the CGMP requirements; and (2) the
277 physical, on-site participation of such an individual is not feasible. To support a PAI or a PLI
278 with remote resources, FDA will request confirmation of a facility’s willingness to accept
279 involvement of remote Agency personnel as well as confirmation of the facility’s willingness
280 and ability to adequately employ virtual interactive technologies to remotely connect an SME to
281 an FDA inspection, when appropriate. FDA does not intend to grant requests from facilities for
282 the use of remote personnel to support any PAI or PLI. Although facility agreement to the
283 involvement of remote Agency personnel is voluntary, FDA’s use of remote resources would
284 provide for real-time, virtual engagement of an off-site expert directly with the on-site inspection
285 team and facility staff, as the inspection team lead determines necessary, to address specific
286 issues bearing on the inspection (e.g., aspects of product manufacturing, facility conditions).

287
288 When FDA anticipates using remote resources during an inspection, the Agency intends to notify
289 the facility by electronic correspondence or by telephone call and include a written request for
290 the facility to confirm its willingness and ability to interact with remote FDA personnel using
291 virtual technology (to be provided by the facility or by the FDA on-site inspection team using
292 FDA technology), including the use of a livestreaming video, screen sharing, and teleconference.
293 The request would indicate: (1) the name, address, and FDA Establishment Identifier or unique
294 identifier of the facility to be inspected; (2) the application or supplement number; (3) the
295 reasoning for FDA’s use of remote resources; and (4) the names and positions of the remote
296 personnel, if known in advance.

297
298 Upon the facility’s agreement to Agency use of remote resources, FDA will facilitate the
299 planning and coordination of the inspection and involvement of a remote SME. The on-site
300 inspection team lead will schedule a virtual meeting with the facility to discuss logistics and
301 expectations. When a facility agrees to the involvement of a remote SME during an inspection,
302 FDA expects the same level of cooperation and transparency with remote FDA personnel as
303 expected with the on-site inspection team.

304
305 When the facility provides equipment enabling the involvement of a remote SME, the quality of
306 the virtual connection (e.g., connectivity, image quality, cameras used) should be adequate for
307 FDA to remotely review, observe, examine, and evaluate the information requested. To the
308 extent practicable, technologies employed also should allow access for remotely viewing and
309 evaluating operations at the facility, as appropriate (e.g., aseptic practices, equipment cleaning
310 and setup, material weighing and dispensing, instrument setup, sampling, testing). Any

³⁷ FDA considers the remote subject matter expert to be a resource for use by FDA inspection teams and such use of a remote subject matter expert does not constitute an RRA.

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311 challenges encountered by the facility in furnishing or operating such equipment or technologies
312 should be communicated to the inspection team lead as soon as possible.

313
314 The FDA inspection team will initiate the inspection on-site before connecting the remote SME.
315 Each virtual interaction with a remote SME will be made with the knowledge and agreement of
316 the inspection team lead who is physically present on-site³⁸ and will include a participating
317 inspection team member on-site and who is participating in that interaction at the time that
318 interaction occurs. To ensure transparency, facilitate information collection, and provide for
319 adequate on-site follow-up, any pertinent information or considerations noted by the remote
320 SME will be communicated to the inspection team for confirmation while the team is physically
321 on-site with facility staff. The on-site inspection team will maintain responsibility for verifying,
322 documenting, and determining which observations are listed on Form FDA 483, titled
323 *Inspectional Observations*. FDA will continually evaluate the utility of this alternative tool and
324 the appropriate conditions for which a remote SME can best be used to support a PAI or PLI.

325

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V. THE EFFECTS OF USING ALTERNATIVE TOOLS

327

328
329 In general, the use of alternative tools will help FDA fulfill its commitments to meet user fee
330 goal dates and to make timely application decisions.

331

332 If observations are identified by FDA through the use of alternative tools, a written list of
333 observations may be presented by FDA to the facility.³⁹ A facility should submit any responses
334 or corrective actions to FDA within 15 U.S. business days for consideration in the application
335 assessment. Responses received after 15 U.S. business days may be deferred for further
336 assessment in the next application assessment cycle. If FDA determines that there is insufficient
337 information available to make a determination on the acceptability of a facility and an inspection
338 is needed to address concerns, FDA will communicate this determination in application
339 milestone meetings, action letters, postaction letters, and/or communications regarding
340 scheduling of the inspection, as appropriate.

³⁸ The on-site presence of the inspection team lead and other inspection team members is consistent with section 704(a)(1) of the FD&C Act, which authorizes inspections by physically present investigators. Use of remote SMEs can support inspections as described above.

³⁹ FDA issues a Form FDA 483, titled *Inspectional Observations*, at the conclusion of an inspection when FDA observes objectionable conditions or practices.