
Type V DMFs for CDER-Led Combination Products Using Device Constituent Parts With Electronics or Software 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DRAFT GUIDANCE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)**

**October 2019
Pharmaceutical Quality/CMC**

Type V DMFs for CDER-Led Combination Products Using Device Constituent Parts With Electronics or Software Guidance for Industry

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1 **Type V DMFs for CDER-Led Combination Products Using Device**
2 **Constituent Parts With Electronics or Software**
3 **Guidance for Industry¹**
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6 This draft guidance, when finalized, will represent the current thinking of the Food and Drug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.
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15 **I. INTRODUCTION**
16

17 A drug master file (DMF) is a voluntary submission to FDA that may be used to provide
18 confidential detailed information about facilities, processes, or articles used in the
19 manufacturing, processing, packaging, and storing of one or more human drugs. The draft
20 guidance for industry *Drug Master Files* (October 2019) (hereinafter *DMF* guidance)² and the
21 DMF web page³ identify the types of DMFs that may be submitted. A Type V DMF is intended
22 for the submission of FDA-accepted reference information and supporting data that are not
23 covered by DMF Types II–IV.
24

25 This guidance explains when a Type V DMF may be used to submit information regarding a
26 combination product⁴ for which the Center for Drug Evaluation and Research (CDER) has
27 primary jurisdiction⁵ (i.e., CDER-led combination product) and which features a device
28 constituent part with electronics and/or software that is planned to be used as a platform, that is,
29 may be used in multiple CDER-led combination products. The guidance also describes the
30 administrative process and outlines the recommended content for these Type V DMF

¹ This guidance has been prepared by the Office of Pharmaceutical Quality in the Center for Drug Evaluation and Research at the Food and Drug Administration in consultation with the Center for Devices and Radiological Health and the Office of Combination Products.

² When final, this guidance will represent FDA’s current thinking on this topic. 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>.

³ See <https://www.fda.gov/drugs/forms-submission-requirements/drug-master-files-dmfs>.

⁴ As defined in 21 CFR part 3.

⁵ Based on the combination product primary mode of action (PMOA). The PMOA of a combination product is the single mode of action (drug, device, or biological product) expected to make the greatest contribution to the overall intended therapeutic effects of the combination product. See section 503(g)(1)(C) of the Federal Food, Drug, and Cosmetic Act; see also 21 CFR 3.2(k), which defines *mode of action* and *therapeutic*, and (m), which presents a definition for PMOA now codified in section 503(g).

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31 submissions and amendments. Alternatively, applicants may also choose to incorporate by
32 reference device constituent part information available in other submission types, such as a
33 premarket notification submission (510(k)); premarket approval application (PMA); request for
34 classification submitted under section 513(f)(2) of the Federal Food, Drug, and Cosmetic Act
35 (FD&C Act) (De Novo request); or device master file (MAF).
36

37 This guidance does not address information about device constituent parts that are also container
38 closure systems, which may be submitted as a Type III DMF. For a Type V DMF that is used for
39 a shared system risk evaluation and mitigation strategy (REMS) submission, see draft guidance
40 for industry *Use of a Drug Master File for Shared System REMS Submissions* (November
41 2017).⁶
42

43 In general, FDA's guidance documents do not establish legally enforceable responsibilities.
44 Instead, guidances describe the Agency's current thinking on a topic and should be viewed only
45 as recommendations, unless specific regulatory or statutory requirements are cited. The use of
46 the word *should* in Agency guidances means that something is suggested or recommended, but
47 not required.
48

49 **II. BACKGROUND**

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51
52 Some CDER-led combination products feature a device constituent part with electronics and/or
53 software that may be used as a platform across multiple products. An application for such a
54 combination product may necessitate review⁷ by multiple centers, offices, and divisions within
55 FDA.⁸ In addition, because the device constituent part may be used as a platform in multiple
56 CDER-led combination products, the same device information may be applicable to and used to
57 support multiple CDER submissions, including an investigational new drug application (IND), a
58 new drug application (NDA), an abbreviated new drug application (ANDA), a biologics license
59 application (BLA), amendments and supplements to these applications, or another DMF. For
60 such combination products, a Type V DMF can be an efficient mechanism to provide
61 information regarding the device constituent part when the same information is applicable to
62 several CDER applications.
63

64 Further, because of rapid advances in technology, the device constituent part in these types of
65 combination products could be modified frequently. Knowledge of these modifications is
66 important in determining whether they have any impact on the safety and effectiveness of the

⁶ When final, this guidance will represent FDA's current thinking on this topic.

⁷ In this guidance, the term *review* also means *assessment*, which is the term that CDER's Office of Pharmaceutical Quality and Office of Generic Drugs will generally use in place of *review*. *Assessment* means the process of both evaluating and analyzing submitted data and information to determine whether the application meets the requirements for approval and documenting that determination.

⁸ Cross-center collaboration and/or consultation is important for combination product review. Although CDER is the primary contact for combination products as described in this guidance, CDER consults with other centers as described in FDA's Staff Manual Guide 4101, *Inter-Center Consult Request Process*, available at <https://www.fda.gov/media/81927/download>.

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67 combination product or its indications for use. As stated in 21 CFR 314.420(c), the DMF holder
68 must submit any change, addition, or deletion of information to the DMF and must notify each
69 person authorized to reference the information. Therefore, an amendment to a Type V DMF may
70 be used to submit information regarding modifications to the device constituent part.

71 Amendments provide a regulatory pathway for the DMF holder to report device modifications
72 and for FDA to review device modifications, including those that may not warrant postapproval
73 reporting by applicants whose applications incorporate the Type V DMF by reference.⁹

74
75 A DMF is neither approved nor disapproved. Its technical content is typically reviewed in
76 connection with the review of an IND, NDA, ANDA, or BLA. A DMF is not a substitute for an
77 application (e.g., if the device is also to be marketed alone).

78
79 Once FDA reviews the Type V DMF device information for one CDER application, its review
80 may be applicable to other CDER applications if the device information remains unchanged and
81 is pertinent to products in other CDER applications that also incorporate the DMF by reference.
82 FDA's ability to use previously completed scientific reviews for a DMF can contribute to an
83 efficient FDA review process and help ensure consistency across CDER applications referencing
84 the same information.

85

86

87 **III. SCOPE**

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89 This guidance applies to Type V DMF submissions as described above for CDER-led
90 combination products. Specifically, the information in the guidance may be appropriate for
91 device constituent parts with electronics and/or software that meet the statutory definition of a
92 device and perform functions such as the following:

93

94 • Facilitate drug delivery in a manner that may include patient input or analysis (e.g., an
95 electromechanically driven pen injector with software that allows input of patient or
96 dosing information or that analyzes dosing or device use information).

97

98 • Provide information that is used in making a decision regarding treatment, therapy, or
99 drug delivery.¹⁰

100

101 • Interface with other devices or systems to provide patient use or other information to the
102 user or health care provider (e.g., physiological parameters).¹¹

⁹ When a DMF holder amends a DMF, he or she must notify each person (i.e., applicant) authorized to reference the DMF (21 CFR 314.420). It is the responsibility of each applicant to then determine whether a submission to an approved or pending application is necessary.

¹⁰ Section 520(o)(1)(E) of the FD&C Act generally excludes software from the definition of a device if the software supports or provides treatment recommendations to health care professionals and enables them to independently review the basis for the recommendations so that it is not the intent that health care professionals rely primarily on such recommendations.

¹¹ Section 520(o)(1)(D) of the FD&C Act generally excludes software from the definition of a device if the software is only intended to display or transfer patient data or other medical information.

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- Control or drive the features of the user interface.

This guidance addresses process and general content expectations for Type V DMFs for such device constituent parts. It does not address FDA premarket review standards or expectations for such constituent parts or the combination products that include them. This guidance is also not intended to suggest that a Type V DMF should be submitted to CDER if the sponsor has rights of reference to an MAF located in another center containing the same information.

IV. ADMINISTRATIVE PROCEDURES FOR A TYPE V DMF

A. Letter of Intent

As specified in 21 CFR 314.420(a) and noted in the *DMF* guidance, if a prospective DMF holder intends to submit a Type V DMF, he or she must first email a letter of intent to the DMF staff (dmfquestion@cderr.fda.gov). The subject field should clearly state “Letter of Intent for Type V DMF.”

The letter of intent should include the following information:

- Name, title, address, and contact information for the prospective DMF holder and a contact for FDA correspondence.
- Name of the CDER-led combination product and the name, title, address, and contact information for the combination product applicant.
- Identification and brief description of the device constituent part that is the subject of the DMF.
- Brief description of how the device constituent part in the DMF is used or how it functions in the combination product, if known.
- Purpose and rationale for submitting the Type V DMF, which should explain why the information is not being submitted in an IND, NDA, ANDA, or BLA or amendments and supplements to these applications (e.g., intent to use the device constituent part with more than one drug product, submission of confidential or proprietary information that is not available to the applicant).

If there are any questions, or if additional information is necessary regarding the letter of intent or proposed submission, FDA will contact the prospective DMF holder to discuss and resolve these issues. Once all issues have been resolved or if there are no issues regarding the letter of intent or proposed submission, FDA will provide confirmation to the prospective DMF holder that the Type V DMF may be submitted.

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148 Before submitting a DMF, however, the prospective DMF holder should request a pre-assigned
149 application number. For more information, see Requesting a Pre-Assigned Application Number
150 at [https://www.fda.gov/drugs/electronic-regulatory-submission-and-review/requesting-pre-
152 assigned-application-number](https://www.fda.gov/drugs/electronic-regulatory-submission-and-review/requesting-pre-
151 assigned-application-number).

B. Submission

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155 Once FDA provides confirmation that the proposed submission is appropriate for a Type V DMF
156 and a pre-assigned number is obtained, the prospective DMF holder may submit the Type V
157 DMF to CDER.

158
159 DMF submissions are subject to the electronic submission requirements as set forth in guidance
160 implementing section 745A of the FD&C Act, including the guidance for industry *Providing*
161 *Regulatory Submissions in Electronic Format—Certain Human Pharmaceutical Product*
162 *Applications and Related Submissions Using the eCTD Specifications* (Rev. 6, January 2019)
163 (*Providing Regulatory Submissions* guidance).¹² This guidance—*Type V DMFs for CDER-Led*
164 *Combination Products Using Device Constituent Parts With Electronics or Software*—is not
165 issued under section 745A of the FD&C Act and does not establish legally enforceable
166 responsibilities. To the extent it discusses binding requirements for DMFs, such requirements
167 have been promulgated in previously issued guidance under section 745A and FDA regulations.

168
169 Unless otherwise stipulated in the *Providing Regulatory Submissions* guidance or successor
170 guidance under section 745A, paper submissions for Type V DMFs are no longer being
171 accepted.¹³ All Type V submissions, whether new DMFs or documents submitted to existing
172 DMFs, must have a DMF number and must be submitted in electronic common technical
173 document (eCTD) format.

174
175 For general information and suggestions regarding DMF submissions—including format,
176 content, and process—see the *DMF* guidance. For information about the eCTD format, see the
177 *Providing Regulatory Submissions* guidance and the *eCTD Technical Conformance Guide*.¹⁴ For
178 content recommendations specific to Type V DMFs for combination products as described in
179 this guidance, see sections V–VII.

C. Administrative Review Process

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183 Upon receipt of a DMF, the Central Document Room (CDR) and DMF staff will complete an
184 administrative review. DMF staff will convey any issues or questions identified during the
185 administrative review to the DMF holder, and if there are administrative issues, the submission
186 will be identified as incomplete. Once the administrative issues are adequately addressed, or if
187 there are no administrative issues, FDA will send an acknowledgement letter to the DMF holder
188 listing the DMF number, the subject (title) of the DMF, the DMF holder name, and a statement

¹² Revision 7 of *Providing Regulatory Submissions* is available as a draft guidance. When final, this guidance will represent the FDA's current thinking on this topic.

¹³ See *Providing Regulatory Submissions* for information about other DMF types.

¹⁴ See the *eCTD Technical Conformance Guide* at <https://www.fda.gov/media/93818/download>.

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189 that the submission is a Type V DMF. The submission will then be made available for technical
190 review.

191

D. Technical Review Process

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194 Before FDA can initiate the technical review of the Type V DMF information in support of an
195 application, the DMF holder should submit a letter of authorization (LOA) to the DMF. The
196 LOA, which can be included in the original or in a subsequent submission, permits FDA to
197 review the Type V DMF and permits authorized parties to incorporate the DMF information into
198 the application. See section V.B.4 for LOA content recommendations.

199

200 During the technical review process, the Type V DMF information will be reviewed in
201 conjunction with the authorized application for the combination product. If issues are identified
202 during this review, they will be conveyed to the DMF holder per current procedures for DMF
203 submissions. At the same time, FDA will notify any applicants who have referenced the Type V
204 DMF that additional information is needed.¹⁵ The general subject of the issues will be identified,
205 but the details of the issues will only be disclosed to the DMF holder.

206

207 When a DMF holder amends a DMF, he or she must notify each person (i.e., applicant)
208 authorized to reference the DMF (21 CFR 314.420). It is the responsibility of each applicant to
209 then determine whether a submission to an approved or pending application is necessary. An
210 amendment to the Type V DMF used to support an approved NDA, BLA, and ANDA will be
211 reviewed according to current FDA procedures. Generally, this review is triggered by an
212 applicant's submission of an amendment, supplement, or annual report.

213

214 If an amendment to a Type V DMF is submitted and no supplement or annual report to an
215 approved application is received, FDA intends to evaluate the changes reported in the DMF
216 amendment to determine whether a supplement to one or more approved applications is needed.
217 If an applicant has determined that a supplement is not necessary and FDA does not agree with
218 that decision (refer to 21 CFR 314.70 and 314.97), FDA will notify the affected applicant.

219

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V. CONTENT RECOMMENDATIONS FOR TYPE V DMF SUBMISSIONS

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223 Type V DMF submissions should contain a cover letter, administrative information, and
224 technical information regarding the device constituent part of the combination product.

¹⁵ For information regarding communications with DMF holders and applicants who reference them, refer to the *DMF* guidance.

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A. Cover Letter

The cover letter should clearly state that the submission is an original, FDA-accepted, Type V DMF for a device constituent part of a combination product.¹⁶ In addition to the cover letter content identified in the *DMF* guidance and in the cover letter template on the DMF web page (e.g., DMF information, statement of commitment,¹⁷ DMF holder information), cover letters for Type V DMFs should also include the following information:

- Identification of applications, if known, that the DMF is intended to support, including the name and address of each sponsor, applicant, or holder and all relevant document numbers.
- Identification of the device constituent part and the name of the combination product(s) that uses the device constituent part, if known.
- Statement that a letter of intent was submitted to FDA, the date of that letter, and the date of FDA’s response.

B. Administrative Information

The administrative information should include information about the DMF holder and relevant contact information, a reviewer’s guide, a copy of the communication from FDA granting permission to submit the Type V DMF, a copy of the LOA provided to the applicant referencing the Type V DMF, and LOAs for any other applications referenced in the Type V DMF submission (if applicable).

1. DMF Holder’s Information

DMF holders should include their name and address and the names and addresses of their corporate headquarters, manufacturing/processing facilities, contacts for FDA correspondence, agents (if any), and the title and responsibilities of each person listed in the administrative information.

2. Reviewer’s Guide

A reviewer’s guide identifies the type and location of information provided in the Type V DMF. This information should be separate from, and referenced after, the cover letter. The reviewer’s guide should provide a high-level overview of the submission’s content with hyperlinks to the information and should identify the location of the information in the DMF by page number or

¹⁶ FDA is developing a form to replace the cover letter used for most DMF submissions (original and subsequent). The form should be available by the time this guidance is finalized.

¹⁷ Statements of commitment are signed statements from DMF holders certifying that their DMFs are current and that they will comply with the statements made in them. They can be included in the cover letter or separately in the eCTD. See the *DMF* guidance for more information.

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265 section of the eCTD. It should include the general subject areas identified in the “Technical
266 Information” section of this guidance (see section V.C), when applicable, and should clearly
267 identify information that addresses the device constituent part and information that addresses the
268 combination product attributes related to the device constituent part.

269

270 3. *Communication Granting Permission for Type V DMF Submission*

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272 The administrative information should include a copy of the communication from FDA granting
273 permission to submit the Type V DMF.

274

275 4. *Letter of Authorization*

276

277 The LOA permits FDA to review the DMF and should include specific information about the
278 DMF and the authorized party as indicated in the LOA template on the DMF web page.

279

280 The DMF holder should send a copy of the LOA to the relevant applicants, sponsors, or other
281 holders who are authorized to incorporate by reference the specific information contained in the
282 DMF. The LOA should indicate if the complete DMF or only limited information (identified by
283 submission date, section numbers, and page numbers) may be incorporated by reference. The
284 applicants, sponsors, or other holders referencing the DMF should include a copy of this LOA in
285 their applications for combination products.

286

287 5. *Reference to Other Applications*

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289 If the DMF references information included in another DMF or an application, such as a 510(k),
290 PMA, De Novo request, IND, NDA, ANDA, or BLA, the DMF holder should provide an LOA
291 from that applicant permitting the incorporation of the identified application information into the
292 DMF. The LOA should include the following:

293

294 • Date.

295

296 • Name of the applicant for the referenced 510(k), PMA, De Novo request, IND, NDA,
297 ANDA, or BLA.

298

299 • Application number and supplement or amendment number (if applicable).

300

301 • Subject of the application.

302

303 • Name of the specific products, items, or information referenced by the LOA. Include the
304 submission date, section numbers, and page numbers.

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306 • Name of people authorized to incorporate information in the application by reference.

307

308 • Statement granting authorization to the DMF holder to reference the identified
309 information.

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- 311 • Name, title, and signature of official authorizing reference to the application.
312

313 **C. Technical Information** 314

315 Because the technical information provided in the Type V DMF may need to be reviewed by
316 other centers, offices, or divisions, DMF holders should clearly identify the technical information
317 applicable to the device constituent part only (if applicable) and the combination product
318 attributes related to the device constituent part (if known). The following list identifies some of
319 the general subject areas that may apply:
320

- 321 • Indication for use.
322 • Device description.
323 • Software information and documentation.
324 • Human factors information and testing for the device.
325 • Sterility assurance.
326 • Shelf life/Expiration date and testing.
327 • Biocompatibility information and testing.
328 • Electrical safety and electromagnetic compatibility testing.
329 • Bench testing.
330 • Manufacturing information.¹⁸
331

332 If the technical information references any other premarket submissions, including those
333 reviewed in other centers such as a 510(k), PMA, or De Novo request, the DMF holder should
334 clearly identify the device name, manufacturer, and applicable submission number for the
335 referenced information; the specific information that is being referenced; and the location of this
336 information in the referenced submission. In addition, the technical information should include a
337 scientifically valid explanation regarding how the referenced information is applicable to the
338 Type V DMF submission, the device constituent part, and/or the combination product attributes
339 related to the device constituent part. (See also section V.B.5.)
340

341 If the device constituent part is a modification of a previously approved/cleared device or if
342 modifications are made to the device constituent part to allow use with different drug products,
343 the device description information should also include a summary of and the rationale for the
344 modifications.
345

346 **VI. CONTENT RECOMMENDATIONS FOR TYPE V DMF AMENDMENTS** 347

348 A Type V DMF amendment may be submitted for changes to the device constituent part (e.g.,
349 design or software changes), testing of the device constituent part, or testing of the combination
350 product for attributes related to the device constituent part. When a DMF holder amends a DMF,
351 he or she must also notify the applicants authorized to reference the DMF (21 CFR 314.420).
352

¹⁸ For additional information regarding manufacturing requirements applicable to combination products, see the guidance for industry and FDA staff *Current Good Manufacturing Practice Requirements for Combination Products* (January 2017).

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353 Applicants are responsible for determining whether submissions to approved or pending
354 applications are necessary.

355
356 The Type V DMF amendment should include administrative and technical information as
357 described above, with the provided information focusing on the proposed changes for which the
358 amendment is being submitted.

359

A. Cover Letter and Administrative Information

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362 The cover letter and administrative section should include the same type of information as
363 described above for the original Type V DMF submission, with the following exceptions:

364

1. Cover Letter

365

366
367 To help determine the impact of any changes or new information provided in the Type V DMF
368 amendment, the cover letter should briefly describe the change, summarize the analysis and
369 evaluation of the change, and identify the device constituent parts and combination products
370 affected by the change, especially if the Type V DMF is referenced by multiple products. These
371 recommendations are in addition to those identified in the *DMF* guidance and in the cover letter
372 template for subsequent submissions on the DMF web page. The cover letter should also include
373 a confirmation statement that the DMF holder has notified affected applicants of the change to
374 the DMF and the dates of the notifications.

375

2. Letter of Authorization

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378 If the DMF amendment is referenced in an application, an LOA should be provided in the Type
379 V DMF amendment.

380

B. Technical Information

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382
383 The technical information should include the same type of information as described above for the
384 original Type V DMF submission, but should focus on the proposed changes for which the
385 amendment is being submitted. For changes submitted in the amendment, the technical
386 information should include a detailed description of the change, the rationale for the change, and
387 the testing information or supporting documentation for the change.

388

389 For new information submitted in the amendment, the technical information should include a
390 detailed description of the new information and the rationale for the submission of this
391 information. In addition, if the new information is replacing information for a Type V DMF
392 submitted previously in a paper copy, the technical information should clearly identify the
393 information that is being replaced, including its location (section and page numbers) and the date
394 of the initial submission. For a Type V DMF submitted in electronic format, the new information
395 should replace the applicable section.

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VII. CONTENT RECOMMENDATIONS FOR TYPE V DMF ANNUAL REPORTS

As indicated in the *DMF* guidance, an annual report should be submitted every year to the DMF. This submission should be clearly labeled as an annual report and should include a cover letter, a statement of commitment, DMF administrative information, and the following information:

- A list of any amendments reporting changes and the dates of the amendments submitted since the last annual report, or the original DMF filing date, whichever is most recent, or a statement that no amendments have been submitted since the last annual report or the original filing date, whichever is most recent.
- A complete list of all parties authorized to reference the DMF, the date of the LOA, and the name, reference number, volume, date, and page numbers of the information that each person is authorized to incorporate by reference. The annual report should contain a complete list, even if it is unchanged from the last annual report. If there are no parties authorized to reference the DMF, that should be indicated in the annual report.
- A complete list of all parties for whom authorization to reference the DMF has been withdrawn.

See the subsequent submissions cover letter template and the annual report template, which includes statement of commitment language, on the DMF web page at <https://www.fda.gov/drugs/forms-submission-requirements/drug-master-files-dmfs>. Annual reports should not be used to report changes in the DMF; however, DMF holders may submit an annual report at the same time as an amendment containing changes.

VIII. GLOSSARY

The following definitions are for purposes of this guidance only:

Agent: A legal entity, whether a company or an individual, that is not employed by but is authorized to act on behalf of a DMF holder.

Applicant: Any person who submits an application to obtain FDA approval or license to market a drug or biologic.

Authorized party: Any person who is authorized to reference a DMF.

Combination product: A product composed of any combination of a drug and device, a biological product and a device, a drug and a biological product, or a drug, device, and a biological product, as defined in 21 CFR 3.2(e).

Constituent part: A drug, device, or biological product that is part of a combination product (21 CFR 4.2).

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444 **Contact person:** An employee of the DMF holder or agent to whom communication from FDA
445 should be sent. The contact person may or may not be the same individual as the responsible
446 official.

447

448 **DMF holder:** A person who owns a DMF.

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450 **Letter of authorization:** A letter from a DMF holder that authorizes an applicant or another
451 DMF holder to incorporate by reference all or part of the DMF's contents to support an
452 application, supplement, or another DMF or an amendment to any of these documents. The LOA
453 also authorizes FDA to review applicable portions of the DMF.

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455 **Person:** An individual, partnership, corporation, or association (section 201(e) of the FD&C
456 Act).

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458 **Responsible official:** The employee of the DMF holder or agent who is responsible for
459 submitting information to the DMF.

460

461 **Right of reference:** The authority to rely upon, and otherwise use, an investigation for the
462 purpose of obtaining approval for an application, including the ability to make available the
463 underlying raw data from the investigation for FDA audit, if necessary (21 CFR 314.3(b)).

464

465 **Sponsor:** A person or agency who assumes responsibility for an investigation of a CDER-led
466 combination product, including responsibility for compliance with applicable provisions of the
467 act and regulations. The sponsor may be an individual, pharmaceutical or device company,
468 governmental agency, academic institution, private organization, or other organization.