

1 **Distinguishing Medical Device**  
2 **Recalls from Product**  
3 **Enhancements and Associated**  
4 **Reporting Requirements**

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7 **Draft Guidance for Industry and**  
8 **Food and Drug Administration**  
9 **Staff**

11 *DRAFT GUIDANCE*

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U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Devices and Radiological Health  
Office of Compliance  
Division of Risk Management Operations  
Recall Branch

36

## Preface

37

38

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45

46

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51

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52  
53 **Draft Guidance for Industry and**  
54 **Food and Drug Administration Staff**  
55

56 *This draft guidance, when finalized, will represent the Food and Drug Administration's*  
57 *(FDA's) current thinking on this topic. It does not create or confer any rights for or on*  
58 *any person and does not operate to bind FDA or the public. You can use an alternative*  
59 *approach if the approach satisfies the requirements of the applicable statutes and*  
60 *regulations. If you want to discuss an alternative approach, contact the FDA staff*  
61 *responsible for implementing this guidance. If you cannot identify the appropriate FDA*  
62 *staff, call the appropriate number listed on the title page of this guidance.*

63 **I. Introduction**

64 Defects or performance failures of marketed medical devices can pose serious risks to public  
65 health. Recalls serve both to correct a defect in current and future devices and to notify users  
66 of potential risks and steps to minimize the impact of device failure or malfunction. Medical  
67 device recalls include voluntary recalls, either initiated by a firm on its own initiative or in  
68 response to a formal request from FDA (covered by 21 CFR part 7, subpart C), and  
69 mandatory recalls ordered by FDA under section 518 of the Federal Food, Drug, and  
70 Cosmetic Act (FD&C Act) [21 U.S.C. 360h] and 21 CFR part 810.<sup>1</sup> Typically, the medical  
71 device recall process under 21 CFR part 7 subpart C is initiated and coordinated by the firm  
72 and classified, monitored, and terminated by FDA district offices and the Center for Devices  
73 and Radiological Health (CDRH).

74  
75 The recall process establishes a mechanism for firms that produce and market medical  
76 devices to take timely action to correct violative devices or remove them from the  
77 marketplace when correction or removal is necessary to protect the public health. When a  
78 firm's recall process is operating effectively, the firm identifies a device defect or failure,  
79 determines a recall is appropriate, and triggers the initiation of the recall process. However,  
80 firms may have trouble identifying whether a change to a device meets the definition of a  
81 recall, the appropriate scope of a recall, and when FDA should be notified of a recall. All of  
82 these issues can result in inconsistent interpretation of regulations by firms, uncertainty in

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<sup>1</sup> This draft guidance does not address mandatory recalls.

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83 firms' regulatory responsibility, and delays between the time a device defect or failure is  
84 identified and the time the public is notified.

85  
86 CDRH recognizes that continuous improvement activities, as part of an effective quality  
87 system, often have a favorable impact on medical device safety and are part of ongoing  
88 efforts to design and manufacture devices that meet the needs of the user and patient. When  
89 new iterations of a device involve changes to device design, it does not necessarily mean that  
90 the existing device has been recalled. This draft guidance is intended to clarify when a change  
91 to a device constitutes a medical device recall, to distinguish those instances from product  
92 enhancements that do not meet the definition of a medical device recall, and to identify the  
93 associated regulatory reporting requirements for each. Correctly categorizing a change to a  
94 device as a recall or product enhancement impacts the applicability and nature of industry  
95 responsibilities and FDA oversight. See 21 CFR part 7 subpart C. Clearly distinguishing  
96 medical device recalls from product enhancements will assist FDA and firms in assessing  
97 when 21 CFR Part 7 Subpart C should be followed. Additionally, this draft guidance seeks to  
98 address concerns that firms may have about making product enhancements.

99  
100 Reports of corrections and removals under 21 CFR part 806 may be required for corrections  
101 and removals regardless of whether the implemented change meets the definition of a  
102 medical device recall. See sections V and VI for more information about reporting  
103 requirements under 21 CFR part 806 for recalls and product enhancements, respectively.  
104 This guidance does not address when changes to marketed devices trigger new premarket  
105 submissions.

106  
107 This guidance is organized in a question-and-answer format, providing responses to questions  
108 that FDA believes are helpful in properly identifying medical device recalls.

109  
110 Throughout this guidance the term "you" refers to manufacturers as defined in 21 CFR  
111 806.2(g).

112  
113 This draft guidance does not address radiation defects or failures to comply with radiation  
114 safety performance standards contained in 21 CFR Parts 1020 to 1050.

115  
116 FDA's guidance documents, including this guidance, do not establish legally enforceable  
117 responsibilities. Instead, guidances describe the Agency's current thinking on a topic and  
118 should be viewed only as recommendations, unless specific regulatory or statutory  
119 requirements are cited. The use of the word *should* in Agency guidances means that  
120 something is suggested or recommended, but not required.

121  
122 **II. Definitions**

123 **Recall**

124 As defined at 21 CFR 7.3(g), "recall means a firm's removal or correction of a marketed  
125 product that the Food and Drug Administration considers to be in violation of the laws it

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126 administers and against which the agency would initiate legal action, e.g., seizure. Recall  
127 does not include a market withdrawal or a stock recovery.” Recall also does not include a  
128 product enhancement, as defined by this guidance. The “Recall Identification” section of this  
129 guidance document is intended to illustrate some of the common violations that render a  
130 device violative and within the definition of a recall.

131

132 A recall may be undertaken voluntarily at any time at the initiative of manufacturers and  
133 distributors under 21 CFR 7.46, or at the request of the FDA under 21 CFR 7.45. Such  
134 requests are directed to the firm that has primary responsibility for the manufacture and  
135 marketing of the product that is to be recalled.

136

#### **Product Enhancement**

138 FDA’s regulations do not define product enhancement. For purposes of this guidance  
139 document, product enhancement means a change or improvement to a non-violative device as  
140 part of continuous device improvement activities. Product enhancements include, but are not  
141 limited to, changes designed to better meet the needs of the user, changes to make the product  
142 easier to manufacture, and changes to the appearance of the device that do not affect its use.  
143 A product enhancement is both (1) a change to improve the performance or quality of a  
144 device, and (2) *not* a change to remedy a violation of the Federal Food, Drug, and Cosmetic  
145 Act (FD&C Act) [21 U.S.C. 321 et seq.] caused by the device. A product enhancement is not  
146 a medical device recall.

147

#### **Stock Recovery**

149 Stock recovery means the correction or removal of a device that has not been marketed or  
150 that has not left the direct control of the manufacturer, i.e., the device is located on the  
151 premises owned by, or under the control of, the manufacturer, and no portion of the lot,  
152 model, code, or other relevant unit involved in the corrective or removal action has been  
153 released for sale or use (21 CFR 7.3(k) and 21 CFR 806.2(l)). A stock recovery is not a  
154 recall.

155

#### **Market Withdrawal**

157 Market withdrawal means a firm's removal or correction of a distributed product which  
158 involves a minor violation that would not be subject to legal action by the FDA or which  
159 involves no violation, e.g., normal stock rotation practices or routine equipment adjustments  
160 and repairs (21 CFR 7.3(j) and 21 CFR 806.2(h)). A market withdrawal is not a recall.

161

#### **Correction**

163 Correction means repair, modification, adjustment, relabeling, destruction, or inspection  
164 (including patient monitoring) of a product without its physical removal to some other  
165 location (21 CFR 7.3(h) and 21 CFR 806.2(d)). Depending on the circumstances involved, a  
166 correction can be a recall or product enhancement.

167

#### **Removal**

169 Removal means the physical removal of a device from its point of use to some other  
170 location for repair, modification, adjustment, relabeling, destruction, or inspection. (21

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171 CFR 806.2(i)). Depending on the circumstances involved, a removal can be a recall or  
172 product enhancement.

173  
174

### 175 **III. Recall Identification**

176

177 **Q: Is your product a device?**

178 A: The recall identification procedures described in this guidance apply to all products that  
179 meet the definition of “device” in section 201(h) of the FD&C Act [21 U.S.C. 321(h)]. All  
180 other products, including electronic products that do not meet the definition of a device, are  
181 outside the scope of this guidance document.

182

183 **Q: Are you considering making a change to your device?**

184 A: For purposes of this guidance, the significant distinction between a medical device recall  
185 and a product enhancement is the reason for changing the medical device. A change to the  
186 device includes but is not limited to changes to: 1) the device design; 2) the manufacturing  
187 process; 3) the device labeling, as defined at section 201(m) of the FD&C Act [21 U.S.C.  
188 321(m)] (including updating the labeling of a distributed product); and 4) marketing practices  
189 (e.g., a removal of the device from the market). If you are not considering a change to your  
190 device, then you are not conducting a removal or correction, and your actions do not fall  
191 within the scope of a medical device recall or a product enhancement.

192

193 The distinction between a recall and product enhancement depends on an assessment of each  
194 change individually, as well as the impact of all such changes on the device as a whole. In  
195 many instances, multiple changes to a device may be implemented in a single update. If you  
196 are considering multiple changes to your device, then you should apply the methodology  
197 identified in this guidance for each change under consideration. If any change or group of  
198 changes addresses a violation of the FD&C Act, then that change would generally constitute a  
199 medical device recall.

200

201 **Q: Are the devices to which you are considering making changes on the market?**

202 A: Only marketed devices can be recalled.<sup>2</sup> Changes to devices that have not entered the  
203 market fall within the definition of a stock recovery and are explicitly excluded from the  
204 definition of a recall.<sup>3</sup>

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<sup>2</sup> For purposes of identifying a medical device recall, devices distributed for use in a clinical study under an Investigational Device Exemption (IDE) are not considered to be marketed.

<sup>3</sup> However, if a change is made to newly manufactured, unreleased lots of a model that is in commercial distribution, that change is not considered a stock recovery.

205 **IV. Differentiating Violative Devices from Non-Violative**  
206 **Devices**

207  
208 Only changes to devices to remedy a violation of the laws administered by FDA and against  
209 which the agency would initiate legal action fall within the definition of a medical device  
210 recall. For example, if a device is being corrected to address a Quality System violation (see  
211 21 CFR part 820), the correction would generally be considered a recall.

212  
213 Changes to non-violative devices are considered to be product enhancements and not medical  
214 device recalls. The questions in this section are intended to help identify the existence of a  
215 violative device.

216  
217 **Q: Is the device to which you are considering making changes failing to meet any**  
218 **specification or failing to perform as intended?**

219 A: FDA generally considers devices that fail to meet specifications<sup>4</sup> and devices that fail to  
220 perform as intended to be of a quality below what they purport or are represented to possess,  
221 which would render them adulterated under section 501(c) of the FD&C Act [21 U.S.C.  
222 351(c)]. Changes to or removals of these devices to correct these violations would generally  
223 constitute recalls.

224  
225 A change made to improve a level of safety performance that was known, predicted, and  
226 stable at the time the device was cleared or approved does not typically mean that the  
227 underlying product was violative. A change to improve the performance or quality of a  
228 legally marketed, non-violative device is a product enhancement and not a medical device  
229 recall. Such a change may be reportable under 21 CFR 806.10 (see section VI, Product  
230 Enhancement Reporting Requirements).

231  
232 A firm's risk management activities will help provide a reference for known failure modes  
233 and expected or estimated failure rates. An increase in overall failure rate,<sup>5</sup> increase in a  
234 single failure mode rate,<sup>6</sup> or the identification of a new failure mode would indicate a failure  
235 to perform as intended. A change to the marketed device to address a failure to perform to  
236 specifications, or a failure to perform as intended, would constitute a medical device recall.

237

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<sup>4</sup> Manufacturers of most medical devices are required to comply with the requirements for design controls when establishing specifications for the devices they manufacture. See 21 CFR 820.30.

<sup>5</sup> For purposes of this guidance, "overall failure rate" means the total rate of device failure regardless of cause.

<sup>6</sup> For purposes of this guidance, "failure mode" means a specific method or type failure. For example, a stent delivery device with balloon inflation could have known failure modes of (1) rupture due to over inflation and (2) rupture due to material degradation.

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Examples: Design Changes and New Failure Mode Identification

An implantable device was approved with an expected/estimated battery life of 5 years under normal conditions of use.

- The supplier of the battery makes technology changes to the battery that will yield an expected battery life of 5.5 years under the same conditions of use. This is a product enhancement and the prior product would not be subject to a recall.
- The supplier of a battery has indicated obsolescence of the current technology. A new supplier is sought out by the manufacturer. The new supplier can deliver a battery that has a 6 year expected life span. This would be considered a product enhancement.
- The manufacturer of a device has two suppliers of a battery. When assessed in aggregate, the overall device population seems to meet the device specifications for a battery life of five years. However, upon analysis of several reports of premature battery depletion, it appears that all of the reports involve only one of the suppliers and not the other. When analyzed separately, the lifespan of the batteries from one of the suppliers is found to be four years, and the batteries from the other supplier last six years. Further investigation reveals that it is a problem in the manufacturing process of the supplier whose batteries last four years that leads to the premature battery depletion. This segment of the device population may be subject to a recall.

239

240

241 **Q: Is the labeling for the device to which you are considering making changes false or**  
242 **misleading, does it fail to have adequate directions for use, or does it otherwise violate**  
243 **the FD&C Act or FDA regulations?**

244 A: Devices with false or misleading labeling are misbranded under section 502(a) of the  
245 FD&C Act [21 U.S.C. 352(a)]. Devices that fail to provide adequate directions for use as  
246 defined at 21 CFR 801.5 are misbranded under section 502(f) of the FD&C Act [21 U.S.C.  
247 352(f)] (unless exempt).<sup>7</sup> Devices that fail to meet other applicable labeling requirements  
248 identified in 21 CFR parts 801 and 809, subpart B, are also in violation of the laws  
249 administered by FDA.

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<sup>7</sup> Prescription devices that meet the requirements of 21 CFR 801.109 are exempt from section 502(f)(1) of the FD&C Act.

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251 Labeling is defined in section 201(m) of the FD&C Act as “all labels and other written,  
252 printed, or graphic matter (1) upon any article or any of its containers or wrappers, or (2)  
253 accompanying such article.” The term “accompanying such article” is not restricted to labels  
254 that are attached to or in the article or package in which it is transported,<sup>8</sup> and labeling can  
255 include posters, tags, pamphlets, circulars, booklets, brochures, instruction books, direction  
256 sheets, fillers, and information on a manufacturer’s web page.

257

258 A change to a marketed device to address false or misleading labeling or other labeling  
259 violations would generally constitute a medical device recall. Such changes may be  
260 reportable under 21 CFR part 806 (see section V Recall Reporting Requirements). However,  
261 the addition of a new warning or other changes to the labeling of a *non-violative* device  
262 would not be meet the definition of a recall, but may still be reportable (see section VI,  
263 Product Enhancement Reporting Requirements).

264

265 **Q: Are you otherwise out of compliance with FDA regulations?**

266 A: You should conduct a careful, thorough, and adequate assessment for each proposed  
267 change to your device. If the result of your assessment indicates that the change is made to a  
268 violative marketed device to bring it into compliance with the laws administered by FDA,  
269 then the change would most likely constitute a medical device recall.

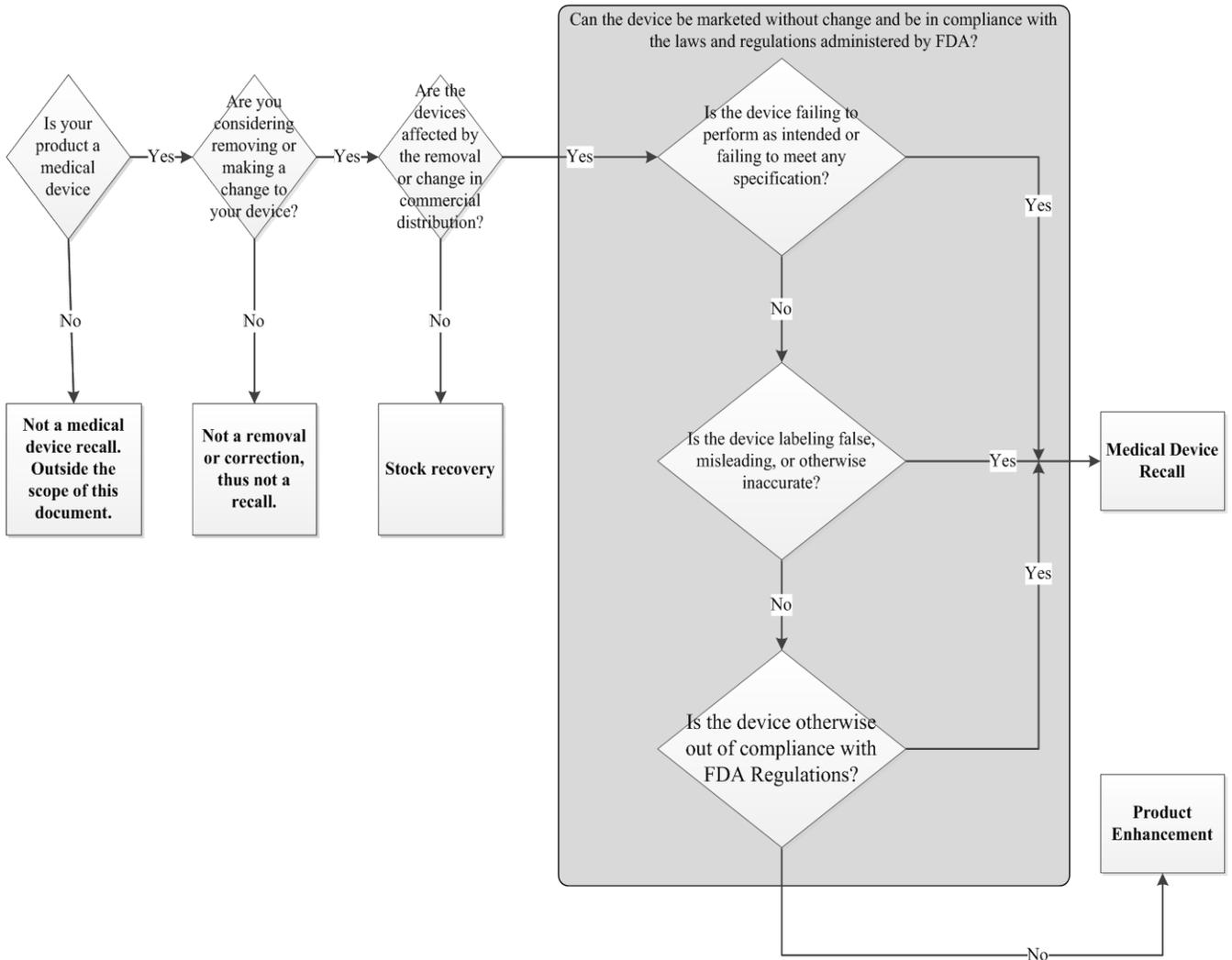
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<sup>8</sup> See, for example, *Kordel v. United States*, 335 U.S. 345, 349-350 (1948).

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271 Recall Decision Making Flow Chart



272

## V. Recall Reporting Requirements

Once a manufacturer determines that a proposed change meets the definition of a medical device recall, the manufacturer should assess whether a report to FDA is required. Under 21 CFR part 806, Medical Devices; Reports of Corrections and Removals,<sup>9</sup> manufacturers must submit a correction and removal report (806 report) to FDA for any correction or removal of a medical device that was initiated by such manufacturer to reduce a risk to health posed by the device or to remedy a violation of the FD&C Act caused by the device that may present a health risk, with certain exceptions.<sup>10</sup>

**Q: If you have determined that the change is a medical device recall, must you file an 806 report?**

A: Pursuant to 21 CFR 806.10(a), a manufacturer must submit an 806 report to FDA when the correction or removal is initiated to (1) reduce a risk to health posed by the device or (2) remedy a violation of the FD&C Act caused by the device which may present a risk to health, unless the information has already been reported to FDA under 807.10(f), or the change qualifies as a market withdrawal, routine servicing, or stock recovery, as defined at 806.2.

Given the overlap in the definition of a recall and the criterion for an 806 report at 21 CFR 806.10(a)(2), a recall must be reported to FDA as long as the violation targeted by the recall may present a risk to health. A risk to health means (1) a reasonable probability that use of, or exposure to, the product will cause serious adverse health consequences or death; or (2) that use of or exposure to the product may cause temporary or medically reversible adverse health consequences, or an outcome where the probability of serious adverse health consequences is remote.<sup>11</sup>

A required 806 report must be submitted to FDA within 10 working days from the time the firm initiates the recall, in accordance with 21 CFR 806.10(b). Regulatory requirements regarding what must be included in an 806 report are available at 21 CFR 806.10(c). In general, reports should be made to the FDA District Office in which the reporting facility is geographically located.

The device manufacturer or importer who initiates a correction or removal of a device that is not required to be reported to FDA under part 806 must maintain records of the correction or removal. Regulatory requirements regarding records of corrections and removals not required to be reported to FDA may be found at 21 CFR 806.20.

Under the regulations, the manufacturer or importer must retain all records for a period of two years beyond the expected life of the device, even if the manufacturer or importer has ceased to manufacture or import the device. If there is a change in ownership, records

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<sup>9</sup> 21 CFR part 806 establishes correction and removal reporting requirements for manufactures and importers. For purposes of this guidance, part 806 reporting requirements are described as they apply to device manufacturers.

<sup>10</sup> 21 CFR 806.10(a)

<sup>11</sup> 21 CFR 806.2(j).

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311 required to be maintained must be transferred to the new manufacturer or importer of the  
312 device and maintained for the required period of time.<sup>12</sup>

313

314 **Q: How do you determine whether a violation targeted by a medical device recall may**  
315 **present a risk to health?**

316 A: Because the two parts of the definition of risk to health at 21 CFR 806.2(j) mirror the  
317 definitions of class I and class II recalls at 21 CFR 7.3(m)(1) and (2), CDRH interprets the  
318 requirement to report under 21 CFR part 806 to apply to recalls that are classified as class I or  
319 class II under 21 CFR Part 7.

320

321 Class I and II recalls are defined under 21 CFR 7.3(m) as:

322

- 323 • Class I - a situation in which there is a reasonable probability that the use of, or  
324 exposure to, a violative product will cause serious adverse health consequences or  
325 death.
- 326 • Class II - a situation in which use of, or exposure to, a violative product may cause  
327 temporary or medically reversible adverse health consequences or where the  
328 probability of serious adverse health consequences is remote.

329

330

331 A Class III recall is defined at 21 CFR 7.3(m)(3) as “a situation in which use of, or exposure  
332 to, a violative product is not likely to cause adverse health consequences.” Because  
333 violations targeted by class III recalls would generally not pose a “risk to health” under 21  
334 CFR part 806, 806 reports are generally not required for events categorized as class III.

335

336 If an 806 report is not required under 21 CFR part 806, you may still submit a voluntary  
337 report.

338

339 To determine whether the use of, or exposure to, the device being recalled poses a “risk to  
340 health” as defined at 21 CFR 806.2(j),<sup>13</sup> FDA recommends that you conduct an analysis or  
341 assessment of the risk to health associated with the device. One method of evaluating this is  
342 through a Health Hazard Evaluation (HHE). The following factors are identified by 21 CFR  
343 7.41 to be considered during an HHE evaluation:

344

- 345 • Whether any disease or injuries have already occurred from use of the product.
- 346 • Whether any existing conditions could contribute to a clinical situation that could  
347 expose humans or animals to a health hazard. Any conclusion should be supported as  
348 completely as possible by scientific documentation or statements that the conclusion  
349 is the opinion of the individuals making the health hazard determination.

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<sup>12</sup> 21 CFR 806.20(c).

<sup>13</sup> Under 21 CFR 806.2(j), a risk to health means (1) a reasonable probability that use of, or exposure to, the product will cause serious adverse health consequences or death; or (2) that use of or exposure to the product may cause temporary or medically reversible adverse health consequences, or an outcome where the probability of serious adverse health consequences is remote.

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- 350       • Assessment of hazard to various segments of the population, e.g., children, surgical  
351 patients, pets, livestock, etc., who are expected to be exposed to the product being  
352 considered, with particular attention to those individuals who may be at greatest risk.  
353       • Assessment of the degree of seriousness of the health hazard to which the populations  
354 at risk would be exposed.  
355       • Assessment of the likelihood of occurrence of the hazard.  
356       • Assessment of the consequences (immediate or long-range) of occurrence of the  
357 hazard.

358

359 **Q: What are the factors FDA considers in assessing your evaluation of the likelihood of**  
360 **adverse health consequences associated with the medical device recall?**

361 A: In addition to the HHE factors identified in 21 CFR part 7, FDA considers the following  
362 points in determining the relative degree of health hazard associated with the device being  
363 recalled.<sup>14</sup> For purposes of this guidance, the relative degree of health hazard is FDA's  
364 assessment of the risk to health under 21 CFR part 806.

365

366       • Has the HHE identified multiple problems with the device that present different or  
367 multiple risks? It is appropriate to conduct a separate HHE for each device defect or  
368 change in addition to an HHE for all of the defects and/or changes together.

369

370       • Has the risk been assessed based on the presumption that no action has or will be  
371 taken by the firm or FDA to correct the problem? FDA assesses risk based on the  
372 device as it exists in distribution without any remedial action taken.

373

374       • Not all devices in the recalled lots may be defective. Some of the devices that are not  
375 within specifications may have a defect but never malfunction. Furthermore, not all  
376 devices that malfunction may cause injury. Has this information been considered?

377

378       • Has the number of devices expected to fail and cause injury been estimated based on a  
379 technical assessment of the device and the defect, the intended use, the usual safety  
380 and performance of the product, and what is known about the failure mode?

381

382       • Have reported complaints and medical device reports (MDRs) been considered when  
383 estimating the number of devices that may fail and cause injury? These may provide  
384 a lowest estimated frequency and severity of injury from the defect. The technical  
385 assessment may then raise the final estimate. The lack of reported injuries does not  
386 decrease the level of risk assigned.

387

388       • If available information is incomplete, have you made appropriate and accurate  
389 assumptions regarding the missing information? In some instances, it may be  
390 appropriate to assume the worst case and estimate the likelihood and risk of injury to  
391 be the highest that might potentially occur.

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<sup>14</sup> Additional information on CDRH's Health Hazard Evaluation is located at  
<http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHTransparency/ucm217880.htm>.

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- Has the HHE been completed for both the population at greatest risk of injury and for the entire population that may use or be treated or diagnosed by the device?
- Has the HHE considered how easily the user can detect the defect or device malfunction and take mitigating actions to reduce a risk to health? You should not assume that the user or patient will always detect the problem before harm occurs.
- Has the risk been assessed based on the range of immediate and long term health consequences that might be expected with the device problem?
- Has the risk been assessed based on a full analysis of all possible health risks? For example, the need for surgery is a consequence of the device malfunction and should be included as a risk in the assessment. Injury should be defined broadly to include significant psychological distress and errors in patient medical management.

A failure to consider all relevant issues could result in an inaccurate relative degree of health hazard assessment.

## 411 **VI. Product Enhancement Reporting Requirements**

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**Q: If you have determined that the change is a product enhancement, and not a medical device recall, do you have any 806 reporting obligations?**

A: Under 21 CFR 806.10(a)(1), an 806 report is required when a correction or removal is initiated to “reduce a risk to health posed by the device.”<sup>15</sup> Thus, as long as your change is initiated to reduce a risk to health posed by your device, even if your change is not a recall, you must submit an 806 report unless all the information has already been provided to FDA under the Medical Device Reporting requirements (21 CFR Part 803).<sup>16</sup> Some examples of changes that FDA would consider reportable under 806 include the addition of a new warning to a device’s label in order to reduce a health risk, a manufacturing change to a sterile device to reduce the likelihood of contamination, or a design change to improve a product’s safety profile.

An 806 report submitted for product enhancements should be identified as such by the manufacturer. If FDA concurs with your assessment that the correction or removal is a product enhancement, the agency will not treat the report as a recall but will determine the appropriate premarket and postmarket actions necessary to address the information contained in the 806 report.

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<sup>15</sup> See 21 CFR 806.2(j) for the definition of “risk to health.”

<sup>16</sup> 21 CFR 806.10(f).

430 **VII. Additional Regulatory Requirements**

431

432 **Q: Once you have determined whether the change is a medical device recall or a**  
433 **product enhancement and whether you must report to FDA under 21 CFR part 806, do**  
434 **you have any additional regulatory obligations?**

435 A: This guidance does not attempt to address all regulatory obligations associated with a  
436 change to a marketed device. Whether a change to a marketed device constitutes a recall or a  
437 product enhancement, you should carefully review the change under applicable regulations  
438 and guidance documents to determine whether the change triggers a requirement for a  
439 premarket submission, for example under 21 CFR 807.81(a)(3) or 814.39.<sup>17, 18</sup>

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<sup>17</sup> See “Deciding When to Submit a 510(k) for a Change to an Existing Device (K97-1)” (issued January 10, 1997).

<sup>18</sup> For medical devices approved under a Premarket Approval application, refer to “Guidance for Industry and FDA Staff; Modifications to Devices Subject to Premarket Approval (PMA) - The PMA Supplement Decision-Making Process” (issued December 11, 2008).