U.S. Food and Drug Administration Medical Devices Current Good Manufacturing Practice Quality System Regulation

OMB Control Number 0910-0073

SUPPORTING STATEMENT

Terms of Clearance: None.

A. Justification

1. Circumstances Making the Collection of Information Necessary

The Food and Drug Administration (FDA) is requesting extension of approval for information collection requirements in 21 CFR Part 820.

Current Good Manufacturing Practices (CGMPs) are set forth in the Quality System (QS) regulation. The authority for this regulation is covered under the Federal Food, Drug, and Cosmetic Act (FD&C Act) (21 U.S.C. 351, 352, 360, 360c, 360d, 360e, 360h, 360i, 360j, 360l, 371, 374, 381, and 383).

The CGMP/QS regulation includes requirements for purchasing and service controls; clarifies recordkeeping requirements for device failure and complaint investigations; clarifies requirements for verifying/validating production processes and process or product changes; and clarifies requirements for product acceptance activities, quality data evaluations, and corrections of nonconforming product/quality problems. Requirements are compatible with specifications in international quality management standards. Below is a description of information collection requirements in the CGMP/QS regulation:

Quality policy—21 CFR 820.20(a)—Recordkeeping

Executive management shall establish (i.e. define, document, implement) the quality policy and maintain it at all organizational levels.

Organization—21 CFR 820.20(b)—Recordkeeping

Manufacturers shall establish and maintain organizational structure adequate to design and produce devices, and establish responsibilities and resources appropriate to manage, perform, and assess activities affecting quality.

Management review—21 CFR 820.20(c)—Recordkeeping

Quality systems shall be reviewed for suitability and effectiveness at defined intervals; and dates and results, documented.

Quality planning—21 CFR 820.20(d)—Recordkeeping

A quality plan defining quality practices, resources, and activities, shall be established and maintained.

Quality system procedures—21 CFR 820.20(e)—Recordkeeping

Manufacturers shall establish and maintain quality system procedures, instructions; and outline appropriate documentation.

Quality audit—21 CFR 820.22—Recordkeeping

Quality system audits/reaudits shall be done per established procedures; and results and dates, documented in reports reviewed by management.

Training—21 CFR 820.25(b)—Recordkeepina

Manufacturers shall establish and maintain procedures identifying training needs, and document training.

Design procedures—21 CFR 820.30(a)(1)—Recordkeeping

Manufacturers of Class III, II and certain Class I devices shall establish and maintain procedures for the design of devices.

Design and development planning—21 CFR 820.30(b)—Recordkeeping

A plan describing design and development activities shall be established, maintained, reviewed, updated and approved as device design evolves.

Design input—21 CFR 820.30(c)—Recordkeeping

Procedures identifying design input requirements shall be established and maintained; and requirements, approval dates and persons, documented.

Design output—21 CFR 820.30(d)—Recordkeeping

Procedures defining design output and acceptance criteria shall be established and maintained; and approvals of design output records, documented.

Design review—21 CFR 820.30(e)—Recordkeeping

Procedures shall be established and maintained for systematic design review; and results, documented in the design history file (DHF).

Design verification—21 CFR 820.30(f)—Recordkeeping

Procedures shall be established and maintained for verifying device design; and, results, dates, methods and persons used, documented in the DHF.

Design validation—21 CFR 820.30(g)—Recordkeeping

Procedures shall be established and maintained for validating design; and results, dates, methods and persons, documented in the DHF.

Design transfer—21 CFR 820.30(h)—Recordkeeping

Procedures shall be established and maintained ensuring the device design is correctly translated into production specifications.

Design changes—21 CFR 820.30(i)—Recordkeeping

Procedures shall be established and maintained to identify, document, verify or validate, review and approve design changes, before implementation.

Design history file—21 CFR 820.30(j)—Recordkeeping

A DHF shall be established/maintained for each device, referencing records showing the device was developed per the design plan/requirements.

Document controls—21 CFR 820.40—Recordkeeping

Manufacturers shall establish and maintain procedures controlling approval and distribution of required documents and document changes.

<u>Documentation approval and distribution—21 CFR 820.40(a)—Recordkeeping</u> Before issuance, all documentation shall be reviewed and approved by designated personnel; and, approval dates and signatures, documented.

Document changes—21 CFR 820.40(b)—Recordkeeping

Manufacturers shall maintain a record of approved changes, including descriptions, affected documents, approval dates, and signatures.

Purchasing controls—21 CFR 820.50(a)—Recordkeeping

Manufacturers shall establish/maintain procedures for product quality requirements to be met by suppliers, contractors; record evaluations; define controls based on these evaluations; and, maintain a record of acceptable suppliers.

Purchasing data—21 CFR 820.50(b)—Recordkeeping

Purchasing documents identifying specified requirements for products and services, shall be established, reviewed and approved.

Identification—21 CFR 820.60—Recordkeeping

Procedures shall be established and maintained for identifying product during receipt, production, distribution and installation.

Traceability—21 CFR 820.65—Recordkeeping

Procedures shall be established and maintained to identify, by control number, lots of life supporting or sustaining implants and their components.

Production and process controls—21 CFR 820.70(a)—Recordkeeping

Manufacturers shall establish and maintain process control procedures, including instructions, SOPs, production methods, monitoring measures for parameters, reference standards, approvals, and workmanship criteria.

Production and process changes—21 CFR 820.70(b)—Recordkeeping

Procedures shall be established and maintained for changes in a specification, method, process, or procedure, including verification or validation.

Environmental control—21 CFR 820.70(c)—Recordkeeping

Manufacturers shall establish and maintain procedures to control environmental conditions and document results of systems inspections.

Personnel—21 CFR 820.70(d)—Recordkeeping

Requirements shall be established and maintained for personnel's health, cleanliness, practices and clothing adversely affecting product quality.

Contamination control—21 CFR 820.70(e)—Recordkeeping

Each manufacturer shall establish and maintain procedures to prevent equipment and product contamination by adverse substances.

Equipment maintenance schedule—21 CFR 820.70(g)(1)—Recordkeeping

Schedules shall be established and maintained for equipment adjustment, cleaning and maintenance; and maintenance, documented.

Equipment maintenance inspection—21 CFR 820.70(g)(2)—Recordkeeping

Results of periodic maintenance inspections, dates, and inspectors shall be documented.

Adjustment—21 CFR 820.70(g)(3)—Recordkeeping

Limitations or tolerances shall be posted on or near equipment and be available to adjusters.

Manufacturing material—21 CFR 820.70(h)—Recordkeeping

Manufacturers shall establish and maintain procedures for using and removing adverse manufacturing materials.

Automated processes—21 CFR 820.70(i)—Recordkeeping

A protocol shall be established to validate software/changes for computers and automatic data processing; and validation results, documented.

<u>Control of inspection, measuring, and test equipment—21 CFR 820.72(a)—</u> <u>Recordkeeping</u>

Procedures shall be established/maintained for equipment calibration, inspection, checks, handling, storage and for documenting these activities.

<u>Calibration procedures—21 CFR 820.72(b)—Recordkeeping</u>

Established calibration procedures shall provide for directions, accuracy/precision limits, and remedial actions; and such actions, documented.

<u>Calibration standards—21 CFR 820.72(b)(1)—Recordkeeping</u>

Absent national or international calibration standards, manufacturers shall establish and maintain in-house standards.

<u>Calibration records—21 CFR 820.72(b)(2)—Recordkeeping</u>

Records shall identify calibrated equipment, dates, calibrators and next calibration.

Process validation—21 CFR 820.75(a)—Recordkeeping

Validation procedures shall be established and maintained for processes whose results are not verifiable by inspection and test; and validation results, dates, approving signatures and equipment, documented.

Validated process parameters—21 CFR 820.75(b)—Recordkeeping

Procedures shall be established and maintained for keeping validated process parameters within specified parameters.

<u>Validated process monitoring, control methods, and data—21 CFR 820.75(b)(2)—</u> <u>Recordkeeping</u>

Monitoring, control methods, and data for validated processes shall be documented.

Revalidation—21 CFR 820.75(c)—Recordkeeping

Results of revalidation activities for product changes or process deviations shall be documented.

Acceptance activities procedures—21 CFR 820.80(a)—Recordkeeping

Manufacturers shall establish and maintain procedures for acceptance activities, including inspections, tests or other assessments.

Receiving acceptance activities—21 CFR 820.80(b)—Recordkeeping

Procedures shall be established/maintained for incoming acceptance by inspection/test/other verification; and acceptance/rejection, documented.

<u>In-process acceptance activities—21 CFR 820.80(c)—Recordkeeping</u>

Procedures shall be established and maintained to ensure in-process product meets specified requirements and is controlled until inspections, tests or verifications are completed and approvals, documented.

Final acceptance activities—21 CFR 820.80(d)—Recordkeeping

Procedures shall be established and maintained so that finished devices meet acceptance criteria and are not distributed until device master record (DMR) activities are completed; data, reviewed; and approvals, documented.

Acceptance records—21 CFR 820.80(e)—Recordkeeping

Acceptance dates, results, performance signatures and equipment shall be recorded in the device history record (DHR).

Acceptance status—21 CFR 820.86—Recordkeeping

Product acceptance status shall be identified during receipt, manufacture, packaging, labeling, installation and servicing.

Control of nonconforming product—21 CFR 820.90(a)—Recordkeeping

Manufacturers shall establish and maintain procedures for identification, documentation, evaluation, and disposition of nonconforming product.

Nonconforming product review/disposition procedures—21 CFR 820.90(b)(1)— Recordkeeping

Manufacturers shall establish/maintain procedures for review/disposition of nonconforming product; and dispositions/concessions, documented.

Rework procedures—21 CFR 820.90(b)(2)—Recordkeeping

Procedures shall be established/maintained for rework, reevaluation of product/adverse rework effects; and, activities/results, recorded in DHR.

<u>Procedures for corrective/preventive actions—21 CFR 820.100(a)(1-7)—Recordkeeping</u> Procedures and requirements shall be established and maintained for corrective/preventive actions, including: analysis of data from process, work, quality, servicing records; investigation of nonconformance causes; identification of corrections and their effectiveness; recording of changes made; and, appropriate distribution and managerial review of corrective and preventive action information.

<u>Corrective/preventive activities—21 CFR 820.100(b)—Recordkeeping</u> All corrective/preventive activities shall be documented.

Labeling procedures—21 CFR 820.120—Recordkeeping

Manufacturers shall establish/maintain procedures to control labeling storage/application; and examination/release for storage and use, documented.

<u>Labeling documentation—21 CFR 820.120(b) and (d)—Recordkeeping</u> Labels/labeling used shall be documented in DHR.

Device packaging—21 CFR 820.130—Recordkeeping

Manufacturers shall ensure device packaging and shipping containers are designed to protect devices from alteration or damage.

Handling—21 CFR 820.140—Recordkeeping

Handling procedures shall be established and maintained to prevent product mix-ups and adverse effects.

Storage—21 CFR 820.150(a) and (b)—Recordkeeping

Manufacturers shall establish/maintain procedures for controlling product storage areas/stock rooms and for authorizing receipt/dispatch.

Distribution procedures—21 CFR 820.160(a)—Recordkeeping

Manufacturers shall establish/maintain distribution control procedures so released devices- distributed, errors- resolved, expired product- not distributed.

Distribution records—21 CFR 820.160(b)—Recordkeeping

Distribution records shall be maintained, identifying consignees, products, quantities, dates, and control numbers shipped.

<u>Installation—21 CFR 820.170—Recordkeeping</u>

For installed devices, manufacturers shall establish instructions, inspection/test procedures, make them available, and record results.

Record retention period—21 CFR 820.180(b) and (c)—Recordkeeping

Required records shall be: maintained at manufacturing sites or other sites accessible to manufacturers and FDA; made readily available to FDA; retained for device's life expectancy or 2 years; and, per request, audit reviews certified.

Device master record—21 CFR 820.181—Recordkeeping

Manufacturers shall maintain DMRs that contain reference: device/process specifications, quality assurance procedures/specifications, packaging /labeling specifications, and installation/maintenance/servicing procedures.

Device history record—21 CFR 820.184—Recordkeeping

For each unit/lot/batch, manufacturers shall maintain DHRs demonstrating manufacture per DMR/regulatory requirements; manufacturing dates; quantities made/distributed; acceptance records; labels/labeling; control numbers.

Quality system record—21 CFR 820.186—Recordkeeping

Manufacturers shall maintain a quality system record (QSR) that contains/references/documents procedures/activities not specific to particular devices.

Complaint files—21 CFR 820.198(a), (c), and (g)—Recordkeeping

Manufacturers shall maintain complaint files/establish procedures for receiving/reviewing/evaluating complaints, to include: recording why complaints are not investigated, and investigating complaints about devices not meeting specifications or associated with events reportable to FDA under separate regulations; and, when complaint units are at separate or foreign sites, maintaining the records at the manufacturer's regular U.S. records site, or at the firm's U.S. designated agent.

Servicing procedures—21 CFR 820.200(a)—Recordkeeping

Where servicing is required, manufacturers shall establish/ maintain procedures for performing/verifying that servicing requirements are met and service reports (for FDA reportable events) are processed as complaints.

Service reports—21 CFR 820.200(d)—Recordkeeping

Service reports shall record the device, date, service, service done, and test and inspection data.

<u>Statistical techniques procedures—21 CFR 820.250(a)—Recordkeeping</u> As appropriate, manufacturers shall establish and maintain procedures to identify valid statistical techniques to access process/product acceptability.

Sampling plans—21 CFR 820.250(b)—Recordkeeping

Written sampling plans shall be based on valid statistical rationale; and procedures, established, maintained and reviewed to ensure their adequacy.

2. Purpose and Use of the Information Collection

CGMP/QS information collections assist FDA inspections of manufacturer compliance with quality system requirements encompassing design, production, installation, and servicing processes. Manufacturers must ensure that medical devices meet design specifications and that design specifications are effectively transferred from research and development to production. Manufacturer compliance with CGMP/QS requirements should decrease such failures and save manufacturers millions of dollars by avoiding recalls caused by inadequate design.

By complying with CGMP/QS requirements U.S. manufacturers will satisfy both domestic and international regulatory requirements.

Not implementing the CGMP/QS regulation would result in the continuation of a significant number of preventable deaths and injuries, and in the loss by manufacturers of substantial savings attributable to reduced recall costs, improved manufacturing efficiency, and improved access to international markets.

3. <u>Use of Improved Information Technology and Burden Reduction</u>

FDA estimates that approximately 75% of the respondents will use electronic means to fulfill the agency's requirement or request.

In the Federal Register of March 20, 1997 (62 FR 13430), FDA published a final rule establishing procedures for electronic records, electronic signatures, and electronic submissions. Firms may use appropriate technology in accordance with this rule to comply with the CGMP/QS recordkeeping requirements. Respondents to FDA information collections may use computer word processing, electronic form, spreadsheet, and database software to collect and format information.

FDA has attempted to maximize current technology to reduce burden for respondents of its data by the methods mentioned above. FDA will continue to pursue methods of applying technology to reduce burden to the respondents of its information collections.

4. Efforts to Identify Duplication and Use of Similar Information

Required information is available from individual manufacturers and no other sources. FDA is the only Federal regulatory agency responsible for collecting such information.

5. <u>Impact on Small Businesses or Other Small Entities</u>

Under the Small Business Administration's definition of a small business, 98% of the manufacturers who keep records are small businesses.

CGMP/QS requirements have a significant impact on a substantial number of small businesses. However, when the CGMP/QS became final rule and exempted the majority of Class I device manufacturers from design controls, FDA estimated a decrease in compliance costs by approximately \$6.8 million, 60 percent of which would have been borne by small businesses. By excluding component manufacturers from CGMP/QS requirements, FDA eliminated potential rises in the cost of components purchased by small businesses. By deleting "complete" and "all" from many previous recordkeeping provisions, FDA provides small businesses with greater flexibility in determining the type and quantity of necessary records. By harmonizing requirements with international standards, FDA provides benefits to small firms pursuing exports since they no longer need to expend resources to maintain a quality system for FDA regulated domestic products and another for foreign regulated exports.

Small firms are assisted by the Division of Industry and Consumer Education (DICE) within FDA's Center for Devices and Radiological Health (CDRH). DICE was established, to provide technical and other non-financial assistance to small firms, expressly to aid them in complying with the requirements of the FD&C Act. DICE participates in and conducts conferences, workshops, and seminars on the application and interpretation of relevant regulations. DICE also consults with small firms, and develops and disseminates CGMP educational materials, thereby reducing small business expenditures to achieve compliance. DICE staff are available to respond to questions via a toll-free telephone number, and they provide additional information to firms on the DICE website.

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/default.htm.

6. Consequences of Collecting the Information Less Frequently

There are no technical or legal obstacles to the collection of information required by this collection. Respondents keep records on a daily basis.

Section 510(h) of the FD&C Act requires FDA to inspect registered manufacturers of Class II (special controls) devices and Class III (premarket approval) devices, at least once every 2 years. FDA inspects manufacturers of Class I (general controls) devices as often as feasible. If inspection reviews were conducted less frequently, FDA's effectiveness in increasing the safety of medical devices by monitoring manufacturers' compliance with CGMPs, would be significantly reduced.

7. Special Circumstances Relating to the Guidelines of 5 CFR 1320.5

Collections are consistent with 5 CFR 1320.5 except for the requirement in section 820.180(b). This section requires records to be retained for a period equivalent to the design and expected life of the device, but in no case less than 2 years from release for distribution. This is necessary because many devices are labeled for extended periods of use. For example, pacemaker life expectancy depends on battery life, which is usually more than 3 years. Manufacturers must retain records as required above in order to

perform failure/problem investigations and FDA must have access to these records to conduct long-range investigations protecting public health.

8. <u>Comments in Response to the Federal Register Notice and Efforts to Consult Outside the Agency</u>

In accordance with 5 CFR 1320.8(d), FDA published a 60-day notice for public comment in the FEDERAL REGISTER of July 31, 2019 (84 FR 37317). No comments were received.

9. Explanation of Any Payment or Gift to Respondents

There is no payment or gift to respondents of this information collection.

10. Assurance of Confidentiality Provided to Respondents

This ICR does not collect personally identifiable information (PII). This Supporting Statement only includes recordkeeping requirements. There is no reporting or third-party disclosure associated with this information collection request. This regulation includes requirements for purchasing and service controls; clarifies recordkeeping requirements for device failure and complaint investigations; clarifies requirements for verifying/validating production processes and process or product changes; and clarifies requirements for product acceptance activities, quality data evaluations, and corrections of nonconforming product/quality problems.

In preparing this Supporting Statement, FDA staff consulted with the FDA Privacy Office to ensure appropriate handling of information collected.

CDRH complies with the Freedom of Information Act (5 U.S.C. 552) and FDA's Public Information regulation at 21 CFR part 20. Section 820.180(a) of the CGMP/QS regulation provides that records deemed confidential by manufacturers may be marked to aid FDA in determining what information may be disclosed under 21 CFR part 20.

11. Justification for Sensitive Questions

This information collection does not include questions that are of a sensitive nature, such as, sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private.

12. Estimates of Annualized Burden Hours and Costs

12 a. Annualized Hour Burden Estimate

FDA estimates the burden for this collection of information as follows:

Table 1.--Estimated Annual Recordkeeping Burden

		F 0	, <i>Darden</i>		
Activity/ 21 CFR Section	No. of	No. of	Total	Average	Total
	Recordkeeper	Records per	Annual	Burden per	Hours
	S	Recordkeepe	Record	Recordkeepin	
		r	S	g	
Quality policy820.20(a)	27,074	1	27,074	7	189,518
Organization820.20(b)	27,074	1	27,074	4	108,296
Management review820.20(c)	27,074	1	27,074	6	162,444

Table 1.--Estimated Annual Recordkeeping Burden

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Activity/ 21 CFR Section	No. of	No. of	Total	Average	Total
	Recordkeeper	Records per	Annual	Burden per	Hours
	S	Recordkeepe	Record	Recordkeepin	
		r	S	g	
Quality planning820.20(d)	27,074	1	27,074	10	270,740
Quality system procedures820.20(e)	27,074	1	27,074	10	270,740
Quality audit820.22	27,074	1	27,074	33	893,442
Training820.25(b)	27,074	1	27,074	13	351,962
Design procedures820.30(a)(1)	27,074	1	27,074	2	51,148
Design and development planning820.30(b)	27,074	1	27,074	6	162,444
Design input820.30(c)	27,074	1	27,074	2	54,148
Design output820.30(d)	27,074	1	27,074	2	54,148
Design review820.30(e)	27,074	1	27,074	23	622,702
Design verification820.30(f)	27,074	1	27,074	37	1,001,73
2 congni vermicunion 320130(1)				<i>3,</i>	8
Design validation820.30(g)	27,074	1	27,074	37	1,001,73
Design transfer820.30(h)	27,074	1	27,074	3	81,222
Design changes820.30(i)		1	-	17	460,258
	27,074		27,074		
Design history file820.30(j)	27,074	1	27,074	3	81,222
Document controls820.40	27,074	1	27,074	9	243,666
Documentation approval and	27,074	1	27,074	2	54,148
distribution and document changes					
820.40(a) and (b)	25.054	_	25.05.4	22	505 600
Purchasing controls820.50(a)	27,074	1	27,074	22	595,628
Purchasing data820.50(b)	27,074	1	27,074	6	162,444
Identification820.60	27,074	1	27,074	1	27,074
Traceability820.65	27,074	1	27,074	1	27,074
Production and process controls820.70(a)	27,074	1	27,074	2	54,148
Production and process changes and environmental control820.70(b) and (c)	27,074	1	27,074	2	54,148
Personnel820.70(d)	27,074	1	27,074	3	81,222
Contamination control820.70(e)	27,074	1	27,074	2	54,148
Equipment maintenance schedule,	27,074	1	27,074	1	27,074
inspection, and adjustment820.70(g) (1)-(g)(3)		_			_,,,,,
Manufacturing material820.70(h)	27,074	1	27,074	2	54,148
Automated processes820.70(i)	27,074	1	27,074	8	216,592
Control of inspection, measuring, and	27,074	1	27,074	5	135,370
test equipment820.72(a)	27,074		27,074	5	100,070
Calibration procedures, standards, and	27,074	1	27,074	1	27,074
records820.72(b)(1)-(b)(2)	27,074		2/,0/4	1	27,074
Process validation820.75(a)	27,074	1	27,074	3	81,222
Validated process parameters,	27,074	1	27,074	1	27,074
monitoring, control methods, and data	27,074		27,074		27,074
820.75(b)					
Revalidation820.75(c)	27,074	1	27,074	1	27,074
Acceptance activities820.80(a)-(e)	27,074	1 1	-	5	135,370
Acceptance status820.86	27,074		27,074 27,074	1	27,074
Control of nonconforming product	27,074	1		5	135,370
Control of noncomforming broauct	2/,0/4	1	27,074	5	133,370

Table 1.--Estimated Annual Recordkeeping Burden

Activity/ 21 CFR Section	No. of	No. of	Total	Average	Total
	Recordkeeper	Records per	Annual	Burden per	Hours
	S	Recordkeepe	Record	Recordkeepin	
		r	S	g	
820.90(a)					
Nonconforming product	27,074	1	27,074	5	135,370
review/disposition procedures and					
rework procedures820.90(b)(1)-(b)(2)					
Procedures for corrective/preventive	27,074	1	27,074	12	324,888
actions820.100(a)(1)-(a)(7)					
Corrective/preventive activities	27,074	1	27,074	1	27,074
820.100(b)					
Labeling procedures820.120(b)	27,074	1	27,074	1	27,074
Labeling documentation820.120(d)	27,074	1	27,074	1	27,074
Device packaging820.130	27,074	1	27,074	1	27,074
Handling820.140	27,074	1	27,074	6	162,444
Storage820.150(a) and (b)	27,074	1	27,074	6	162,444
Distribution procedures and records	27,074	1	27,074	1	27,074
820.160(a) and (b)					
Installation820.170	27,074	1	27,074	2	54,148
Record retention period820.180(b)	27,074	1	27,074	2	54,148
and (c)					
Device master record820.181	27,074	1	27,074	1	27,074
Device history record820.184	27,074	1	27,074	1	27,074
Quality system record820.186	27,074	1	27,074	1	27,074
Complaint files820.198(a), (c), and	27,074	1	27,074	5	135,370
(g)					
Servicing procedures and reports	27,074	1	27,074	3	81,222
820.200(a) and (d)					
Statistical techniques procedures and	27,074	1	27,074	1	27,074
sampling plans820.250					
Totals					9,021,75
					2

All registered establishment types must comply with the CGMP/QS regulations. Upon review of the data and this ICR under the PRA we have also determined that, for accuracy, it is preferable to estimate the number of respondents based on the number of establishments, rather than the number of owner/operators of those establishments. A query of the Agency's registration and listing databank for fiscal year (FY) 2019 shows that 27,074 establishments are subject to the regulations. Because the total number of registered establishments is not static, the number of respondents will fluctuate from year to year resulting in changes to the overall burden.

12b. Annualized Cost Burden Estimate

FDA estimates the annualized cost burden as \$317,804,746. We have determined, based on Agency data and expertise, that recordkeeping is performed by several types of worker. We used the occupational categories and updated wage rates from the Bureau of Labor and Statistics data* to determine the cost burden estimate.

*Approximate hourly wage rate is based on the Bureau of Labor and Statistics' May 2018 National Occupational Employment and Wage Estimates for life, physical, and social science occupations (http://www.bls.gov/oes/current/oes_nat.htm).

Type of Respondent (BLS Occupation	Total Burden	Hourly	Total Respondent		
Code)% Record Responsibility	Hours*	Wage Rate	Costs*		
General & Operations Managers (11-1021)	902,175	\$59.56	\$53,733,543		
10%					
Compliance Officers (13-1041)10%	902,175	\$34.86	\$31,449,821		
Computer Occupations (15-1100)5%	451,088	\$43.98	\$19,838,850		
Statisticians (15-2041)5%	451,088	\$44.52	\$20,082,438		
Biomedical Engineers (17-2031)20%	1,804,350	\$45.72	\$82,494,882		
Customer Service Representatives (43-	902,175	\$17.53	\$15,815,128		
4051)10%					
Information and Record Clerks (43-4000) 15%	1,353,263	\$17.19	\$23,262,591		
Supervisors of Production Workers (51-1011)10%	902,175	\$30.93	\$27,904,273		
Misc. Plant & System Operators (51-8090)	1,353,263	\$31.94	\$43,223,220		
15%	,555,255	,	, 3,3,3		
Total	\$317,804,746				
* Numbers have been rounded.					

13. <u>Estimates of Other Total Annual Costs to Respondents and/or Recordkeepers/Capital Costs</u>

There are no capital, start-up, or operating and maintenance costs associated with this information collection.

14. Annualized Cost to the Federal Government

Based on past experience, it is anticipated that 190 full time equivalent (FTE) positions, including headquarters personnel, field investigators, and lab technicians, will be used to properly maintain and enforce the CGMP/QS final regulation.

Based on a cost of \$270,305 per position (which is the agency's projected average cost of an FTE including benefits*), the estimated annual Federal cost is \$51,357,950.

15. Explanation for Program Changes or Adjustments

We have adjusted the number of respondents based on updated Registration and Listing data for FY2019 (previously 24,738 respondents per IC; updated to 27,074 respondents per IC). This caused a 412,928-hour increase in the total estimated burden. There are no program changes.

16. Plans for Tabulation and Publication and Project Time Schedule

The results of this collection of information will not be published.

17. Reason(s) Display of OMB Expiration Date is Inappropriate

^{*}Based on the Food and Drug Administration fully loaded FTE cost model (domestic) for FY 2018, as provided by agency economists.

FDA will display the OMB expiration date as required by 5 CFR 1320.5.

18. Exceptions to Certification for Paperwork Reduction Act Submissions

There are no exceptions to the certification.