December 1, 2025

Spinal Simplicity, LLC
Adam Rogers
SVP, Regulatory & Engineering
6363 College Blvd
Suite 320
Overland Park, Kansas 66211

Re: K253250
Trade/Device Name: Minuteman® G6 MIS Fusion Plate
Regulation Number: 21 CFR 888.3050
Regulation Name: Spinal Interlaminal Fixation Orthosis
Regulatory Class: Class II
Product Code: PEK
Dated: September 26, 2025
Received: September 29, 2025

Dear Adam Rogers:

We have reviewed your section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (the Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database available at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Additional information about changes that may require a new premarket notification are provided in the FDA guidance documents entitled "Deciding When to Submit a 510(k) for a Change to an Existing Device" (https://www.fda.gov/media/99812/download) and "Deciding When to Submit a 510(k) for a Software Change to an Existing Device" (https://www.fda.gov/media/99785/download).

Your device is also subject to, among other requirements, the Quality System (QS) regulation (21 CFR Part 820), which includes, but is not limited to, 21 CFR 820.30, Design controls; 21 CFR 820.90, Nonconforming product; and 21 CFR 820.100, Corrective and preventive action. Please note that regardless of whether a change requires premarket review, the QS regulation requires device manufacturers to review and approve changes to device design and production (21 CFR 820.30 and 21 CFR 820.70) and document changes and approvals in the device master record (21 CFR 820.181).

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR Part 803) for devices or postmarketing safety reporting (21 CFR Part 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR Part 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR Parts 1000-1050.

All medical devices, including Class I and unclassified devices and combination product device constituent parts are required to be in compliance with the final Unique Device Identification System rule ("UDI Rule"). The UDI Rule requires, among other things, that a device bear a unique device identifier (UDI) on its label and package (21 CFR 801.20(a)) unless an exception or alternative applies (21 CFR 801.20(b)) and that the dates on the device label be formatted in accordance with 21 CFR 801.18. The UDI Rule (21 CFR 830.300(a) and 830.320(b)) also requires that certain information be submitted to the Global Unique Device Identification Database (GUDID) (21 CFR Part 830 Subpart E). For additional information on these requirements, please see the UDI System webpage at https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/unique-device-identification-system-udi-system.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-

assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

MAZIAR SHAH-MOHAMMADI -S

[For] Brent Showalter, Ph.D.
Assistant Director
DHT6B: Division of Spinal Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

Please type in the marketing application/submission number, if it is known. This textbox will be left blank for original applications/submissions.	K253250

Please provide the device trade name(s).

Minuteman® G6 MIS Fusion Plate

Please provide your Indications for Use below.

The Spinal Simplicity Minuteman G6 MIS Fusion Plate is a posterior, non-pedicle fusion device, intended for use at a single interspace in the non-cervical spine (L1-S1). It is intended for plate fixation/attachment to spinous processes for the purpose of achieving instrumented posterior arthrodesis (i.e., fusion) in the following conditions:

• Lumbar spinal stenosis;
• Degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); and/or
• Spondylolisthesis.

The Minuteman G6 MIS Fusion Plate is intended for use with bone graft material. The device may be implanted via a lateral transverse approach (L1-S1).

Please select the types of uses (select one or both, as applicable).

- ☒ Prescription Use (Part 21 CFR 801 Subpart D)
- ☐ Over-The-Counter Use (21 CFR 801 Subpart C)

510(k) #:

510(k) Summary

Prepared on: 2025-09-26

Contact Details

21 CFR 807.92(a)(1)

Applicant Name	Spinal Simplicity, LLC
Applicant Address	6363 College Blvd Suite 320 Overland Park KS 66211 United States
Applicant Contact Telephone	913-451-4414
Applicant Contact	Mr. Adam Rogers
Applicant Contact Email	ARogers@spinalsimplicity.com

Device Name

21 CFR 807.92(a)(2)

Device Trade Name	Minuteman® G6 MIS Fusion Plate
Common Name	Spinal interlaminal fixation orthosis
Classification Name	Spinous Process Plate
Regulation Number	888.3050
Product Code(s)	PEK

Legally Marketed Predicate Devices

21 CFR 807.92(a)(3)

Predicate #	Predicate Trade Name (Primary Predicate is listed first)	Product Code
K234051	Minuteman G5 MIS Fusion Plate	PEK

Device Description Summary

21 CFR 807.92(a)(4)

The Minuteman G6 MIS Fusion Plate is a minimally invasive, interspinous-interlaminar fusion device intended for the fixation and fusion of the lumbar and sacral spine. The Minuteman G6 MIS Fusion Plate is composed of Ti-6Al-4V ELI titanium alloy per ASTM F136 and is coated with hydroxyapatite (HA) per ASTM F1185. It is designed for attachment to the posterior non-cervical spine at the spinous processes through its two sets of wings and is intended for use with bone graft material placed within the device. The Minuteman G6 MIS Fusion Plate provides immobilization, stabilization, and fusion of the spinal segments. The core threaded post provides controlled distraction, while a wide range of sizes allows for enhanced anatomical fit. The Minuteman G6 MIS Fusion Plate can easily be placed under fluoroscopy through a lateral transverse MIS approach. The Minuteman G6 MIS Fusion Plate is delivered sterile and individually packed.

Intended Use/Indications for Use

21 CFR 807.92(a)(5)

The Spinal Simplicity Minuteman G6 MIS Fusion Plate is a posterior, non-pedicle fusion device, intended for use at a single interspace in the non-cervical spine (L1-S1). It is intended for plate fixation/attachment to spinous processes for the purpose of achieving instrumented posterior arthrodesis (i.e., fusion) in the following conditions:

- Lumbar spinal stenosis;
- Degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); and/or
- Spondylolisthesis.

The Minuteman G6 MIS Fusion Plate is intended for use with bone graft material. The device may be implanted via a lateral transverse approach (L1-S1).

Indications for Use Comparison 21 CFR 807.92(a)(5)

The Minuteman G6 MIS Fusion Plate has the same intended use and indications for use as the predicate device.

Technological Comparison 21 CFR 807.92(a)(6)

The Minuteman G6 MIS Fusion Plate has the same technological characteristics as the predicate device. Non-Clinical performance and cadaver testing demonstrates the ability of the device to be used safely and effectively for the indicated use. The Minuteman G6 MIS Fusion Plate is substantially equivalent to the predicate device.

Non-Clinical and/or Clinical Tests Summary & Conclusions 21 CFR 807.92(b)

Non-clinical tests were performed to support substantial equivalence of the Minuteman G6 MIS Fusion Plate. Custom bench and cadaver tests were also performed to support the performance of the device. This testing included:

ASTM F1717 Static Compression Testing
ASTM F1717 Static Torsion Testing
ASTM F1717 Dynamic Compression Testing
Custom Pull Off Testing
Cadaver Testing

Clinical performance testing was not conducted for this submission.

Spinal Simplicity concludes that the performance testing provided in this 510(k) application demonstrates that the Minuteman G6 MIS Fusion Plate is capable of performing as intended and is as safe and effective as the legally marketed predicate device.