§ 837-aa. Firearm prevention technology requirements for three-dimensional printers. 1. As used in this section, the following terms shall have the following meanings:

(a) "Three-dimensional printer" means:

(i) any machine capable of rendering a three-dimensional object from a digital design file using additive manufacturing; or

(ii) any machine capable of making three-dimensional modifications to an object from a digital design file using subtractive manufacturing.

(b) "Blocking technology" means hardware, software, firmware, or other integrated technological measures capable of ensuring a three-dimensional printer will not proceed to print any print job unless the underlying three-dimensional printing file has been evaluated by a firearms blueprint detection algorithm and determined not to be a printing file that would produce a firearm or illegal firearm parts.

(c) "Firearms blueprint detection algorithm" means a software service that evaluates three-dimensional printing files, whether in the form of stereolithography (STL) files or other computer aided design files or geometric code, to determine if they can be used to program a three-dimensional printer to produce a firearm or illegal firearm parts, and flag any such files to prevent their use to manufacture said firearm or illegal firearm parts.

(d) "Illegal firearm parts" means an unfinished frame or receiver, a major component of a firearm, or any part designed and intended for use in converting a semi-automatic weapon into a machine gun, including, but not limited to, a pistol converter.

(e) All other terms shall have the same meaning given to such terms in section 265.00 of the penal law.

2. Within ninety days of the effective date of this section, the division, the department of state, and the state university of New York shall convene a working group which shall include experts in additive manufacturing technology, artificial intelligence and digital security, firearms regulation, public safety, consumer product safety, and any other relevant disciplines determined by the division to be necessary to perform the functions prescribed herein. No later than one year after the working group convenes, the working group shall make recommendations regarding the minimum safety standards a three-dimensional printer's

blocking technology must meet in order to comply with the requirements of section three hundred ninety-six-eeee of the general business law. Such recommendations shall address, at a minimum, available and appropriate types of blocking technology, including minimum performance standards for those technologies and for firearms blueprint detection algorithms, necessary safeguards to reduce the risk of circumvention of blocking technology, and alignment with existing state and federal law. Provided, however, that if the working group determines that it is not technologically feasible to require three-dimensional printers sold in the state of New York to include blocking technology, the working group shall so report, and no regulations shall be required to be promulgated pursuant to this section, until such time as the working group determines that it is technologically feasible.

3. The division shall:

(a) within nine months of receiving the recommendations from the working group pursuant to subdivision two of this section, unless the working group reports that it is not technologically feasible to require three-dimensional printers sold in New York to include blocking technology, in consultation with the department of state, promulgate and publish rules or regulations establishing performance standards for blocking technology and any other rules and regulations as may be necessary to carry out the provisions of this section, section three hundred ninety-six-eeee of the general business law, and article thirty-nine-DDDD of the general business law; and

(b) be authorized to create and maintain a library of firearms blueprint files and illegal firearm parts blueprint files, and maintain and update the library, including by adding new files that enable the three-dimensional printing of firearms or illegal firearm parts and including scans of seized firearms. In furtherance of this authorization, the division may designate another government agency or an academic or research institution in this state to assist with the creation and maintenance of the file library. The library shall be made available to three-dimensional printer manufacturers, vendors with demonstrated expertise in software development, or experts in computational design or public safety, for the development or improvement of blocking technology and firearm blueprint detection

algorithms. The division shall establish safeguards to prevent unauthorized access to and misuse of the library and shall prohibit all persons who are granted access to the library from misusing, selling, disseminating, or otherwise publishing its contents.