Safety Equipment Institute

SEI Certification Program Manual

Section 29: Industrial Protective Clothing and Equipment Program

29.0 ASTM and NFPA Industrial Protective Clothing and Equipment Program Standards and Specifications

- **ASTM F1506-22 Flame Resistant and Arc Rated Textile Materials for Electrical Apparel**
- **NFPA 2112-23 Flash Fire Garments**

29.1 Certification Submittal Package

A Certification Submittal Package shall include an SEI Certification Submittal form *(see Form 8.0: SEI Certification Submittal Form*), a Components & Materials Description Checklist form (*see Section 29B: General Components & Materials Description Checklist*) for each element or material component, product model, variant or accessory being submitted. Completion of the submittal package serves four primary purposes:

1. The submittal package provides SEI and the SEI Quality Assurance Auditor with a description of new, modified or existing products to be selected for annual certification.
2. The information provided by the manufacturer in the submittal package confirms to SEI the product design and components.
3. Receipt of the submittal package by the testing laboratory, from SEI, serves as the laboratory's authorization to begin testing the product(s) and allows laboratory personnel to verify that the correct product samples have been received.
4. The return of a signed copy of the submittal form from the testing laboratory provides SEI with a record of the date testing was completed on the product model.

Over the life of the product, subsequent submittal packages shall document that the product model submitted for certification testing is identical to samples **previously** tested, except where Class I model changes have been tested and documented through the submission of additional SEI submittal packages or documented Class II changes have been made. It is therefore necessary that each submittal to SEI include sufficient product description information, which is achieved by a complete components and materials listing to uniquely and unambiguously identify the product model in question (*see Section 14: Product Changes*).

SEI Certification Submittal Form

Each submittal must be identified on the submittal form as either (1) initial certification, (2) annual certification, (3) Class I change, or (4) Class II change. Finished product manufacturing facilities (assembly) located at a different address (i.e. suppliers or company-owned factories) shall be identified in Section 3 of the submittal form. The SEI Certification Submittal Form shall be signed by the authorized manufacturer representative within the participating company having the authority to authorize expenditures for testing.

Components & Materials Description List

The product description information may be (a) listed on the Component and Materials Description Checklist form, (b) provided as a separate listing by the manufacturer (i.e. Bill of Materials), or (c) appropriate engineering drawings/ specification sheets. Use of *Section 29B: General Components and Materials Description Checklist* form is recommended. The following information is to be included on each Components & Materials Description Checklist. Brief examples are provided for guidance.

A. Description of Major Components
   All major components and materials shall be identified and described. Where possible, include brand name and part number, supplier name and location.
B. Primary Materials
   Materials used in the construction of major components shall be identified. Identification shall include trade names, if applicable. All changes shall be reported to SEI for evaluation and possible action.
C. Manufacturing Locations
   All locations in which the product model is manufactured or assembled must be identified on the SEI Certification Submittal Form. If major components are manufactured by another company and purchased by the SEI participants, the name and address of the manufacturing facility and contact name shall be identified on the Components & Materials Description Checklist.
D. Specification Sheets or Technical Bills of Materials
   Product specification sheets or technical bills of materials (BOM) may be included with the SEI Certification Submittal Form in addition to the Components & Materials description checklist to fulfill some or all other requirements noted above. In the case of annual ~~re~~certification, the appropriate documents (i.e., submittal form and components and materials listing or BOM) shall be prepared prior to the sample selection audit and available to the auditor during the audit for reference and confirmation of product.

E. Confidentiality
All product information received by SEI staff, the SEI Quality Assurance Auditor, or the SEI testing laboratory shall be considered confidential and shall not be released to any third party without written authorization from the manufacturer to do so (with the exceptions noted in *Section 3: Manufacturer's Agreement* for response to a subpoena, court order or other compulsory process).

User Guide and Label ~~Checklist~~

If applicable, a User Guide and Label are required for protective ensemble and ensemble elements. The standards specify the minimum information that must be presented, and each manufacturer may provide as much information about the products as they deem necessary to use the products safely. However, the standard does not specify or require a set format for presenting this information. As a result, there are many ways a User Guide or Label can be arranged and presented, which is up to the discretion of each manufacturer.

Typically, element or material components are not required by the standard or specification to include a label or user guide. However, *Section 17: Use of the SEI Certification Mark* of the SEI Certification Program Manual (CPM) does require the use of a component model certification mark.

29.2 Industrial Protective Clothing and Equipment Program Codes

SEI utilizes SEI Reference Numbers internally to identify each SEI participant and their unique models and variants. The first set of two or three letters/numbers indicates which standard program code the model/variant is being certified against. The second set of three letters indicates the SEI participant's unique identification. The third set of numbers are assigned by SEI to identify each model (see definition below) being certified.

eg: BBH ABC 03
eg: BBH ABC V03

Where BBH identifies the standard program code
Where ABC identifies the unique participant identification
Where 03 identifies the model submitted for certification
Where V03 identifies the model as the third variant (V03) for this Participant Identification (ABC)

SEI Reference Program Code	Standard Description	Product Type	Standard
FRA	Standard on Flame Resistant and Arc Rated Textile Materials	Flame Resistant and Arc Rated Component	ASTM F1506
IFF	Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire	Flash Fire Flame Resistant Garment	NFPA 2112

29.3 Definition of a "Model"

"Model" is the collective term used to identify a group of protective devices of the same basic design and components from a single applicant produced by the same manufacturing and quality assurance procedures that are covered by the same certification. Any characteristic that affects the device's performance under the limits of the current certification standards constitutes a different model. For purposes of the SEI Certification Program, the above definition of the term "model" uses performance characteristics as the basic criteria.

29.4 Annual Certification Fees

Testing shall be performed annually. When an initial submittal package is submitted to SEI, the Annual Participation Fees (*See Section 7: Annual Participation Fees*) and Annual Model Certification Fees are due. The following is a schedule of annual model certification fees that apply to the Industrial PPE Products Program

Program Code	Model Type	Annual Model Certification Fees
IFF, FRA	Base Model	$927
	Variant Model	$309
	Accessory Model	$139
IFF, FRA Solely Using Shared Component Data	Base Model	$309
	Variant Model	$309
	Accessory Model	$309

29.5 ASTM F1506 Flame Resistant and Arc Rated Textile Materials for Electrical Apparel

A. Definition of Model
Characteristics that should affect the model's ability to meet the performance requirements of the certification standard and therefore require a new model designation:

1. Material, composition, thickness or design
2. Seam construction, techniques and design
3. Garment configuration
4. Thread material and composition
5. Color (Arc Testing Only)

Characteristics that should not affect the model's ability to meet the performance requirements of the certification standard and therefore would not require a new model designation:

1. Color (Non-Arc Testing)
2. Clothing design options (e.g., pockets, if made from same base material)
3. Size

B. Examples of Major Components
Not applicable for this product

C. Laboratory Testing Fees/ Attributes & Variables
SEI currently has approved one (1) laboratory that may conduct testing to this standard. The schedule of rates for testing at these laboratories can be found on the SEI website and can be used to estimate the total cost of testing for all the models that are to be certified.

29.6 NFPA 2112 Flash Fire Garments

A. Definition of Model
Characteristics that should affect the model's ability to meet the performance requirements of the certification standard and therefore require a new model designation:

1. Material, composition, thickness or design
2. Seam construction, techniques and design
3. Garment configuration
4. Thread material and composition

Characteristics that should not affect the model's ability to meet the performance requirements of the certification standard and therefore would not require a new model designation:

4. Color
5. Clothing design options (e.g., pockets, if made from same base material)
6. Size

B. Examples of Major Components
Not applicable for this product

C. Laboratory Testing Fees/ Attributes & Variables
SEI currently has approved two (2) laboratories that may conduct testing to this standard. The schedule of rates for testing at these laboratories can be found on the SEI website and can be used to estimate the total cost of testing for all the models that are to be certified.