日本消防検定協会
JAPAN FIRE EQUIPMENT INSPECTION INSTITUTE

<table>
<thead>
<tr>
<th>部署</th>
<th>電話</th>
<th>FAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>常務部</td>
<td>0422-44-7471</td>
<td>0422-44-8415</td>
</tr>
<tr>
<td>業務企画室</td>
<td>0422-44-7206</td>
<td>0422-44-7367</td>
</tr>
<tr>
<td>企画研究部</td>
<td>0422-44-7475</td>
<td>0422-44-7215</td>
</tr>
<tr>
<td>企画研究部</td>
<td>0422-44-7222</td>
<td>0422-44-7215</td>
</tr>
<tr>
<td>警報設備部</td>
<td>0422-44-7274</td>
<td>0422-44-7274</td>
</tr>
<tr>
<td>消火・消防設備部</td>
<td>0422-44-8451</td>
<td>0422-44-8451</td>
</tr>
<tr>
<td>消費者相談室</td>
<td>06-6345-7491</td>
<td>06-6341-6738</td>
</tr>
<tr>
<td>消費者相談室</td>
<td>06-6354-7491</td>
<td>06-6354-7491</td>
</tr>
<tr>
<td>虎ノ門事務所</td>
<td>03-3593-2991</td>
<td>03-3593-2990</td>
</tr>
<tr>
<td>消費者相談室</td>
<td>03-3593-3077</td>
<td>03-3593-3077</td>
</tr>
</tbody>
</table>

〒182-0012 東京都調布市深大寺東町4-35-16
〒530-0001 大阪府大阪市北区梅田1-3-1600（大阪駅前第1ビル6階）
〒105-0001 東京都港区虎ノ門2-9-16（日本消防会館9階）

http://www.jfeii.or.jp
Outline of Japan Fire Equipment Inspection Institute

Organization Overview

In 1948, the Fire and Disaster Agency’s National Research Institute of Fire and Disaster began the inspection of fire equipment in Japan. However, along with the development of industrialization and the concentration of population in urban areas, and in spite of the steadily rising annual number of cases of fire, the Research Institute of Fire and Disaster was unable to prevent the continued use of poor quality equipment because inspections were voluntary. Consequently, there arose a strong desire for a stronger fire prevention inspection system. In response to this need, the Japan Fire Equipment Inspection Institute was established in October 1963 as a public organization for conducting inspections. In the following year, the inspection of fire equipment and systems was changed from voluntary to compulsory. JFEI currently conducts a variety of activities to guarantee that the fire prevention equipment needed to safeguard lives and assets functions properly. These activities, conducted under the direction of the Minister for Internal Affairs and Communications, include mandatory inspections, consultation, testing and research, as well as a wide range of activities such as participation in international ISO initiatives.
検定業務

 Mandatory Inspection Service

 Mandatory inspections are used to develop regulations for the technical standards of essential fire prevention equipment and other items required for fire prevention, fire extinguishing, and lifesaving activities. Mandatory inspections involve stringent testing and surveys by government organizations with the aim of maintaining quality. Equipment that does not pass mandatory inspections cannot be sold, displayed for the purpose of sale or used for construction. JFIEE conducts mandatory inspections as an inspection organization operating in accordance with the Fire Services Act.

 1 Mandatory Inspection System

 The Mandatory Inspection System consists of model approval and mandatory model conformity inspections.

 Model approval
 Equipment and tools requiring testing need to be of a certain shape or form otherwise may cause trouble with fire-fighting efforts during fires, or lifesaving efforts, and also require inspections conducted in advance due to their usage conditions. The Minister of Public Management, Home Affairs, Posts and Telecommunications approves these if they comply with technical standards defined by the Minister. As an inspection organization, JFIEE tests whether equipment and tools seeking model approval complies with the relevant standards.

 Mandatory model conformity inspections
 The manufacturing facilities of applicants for manufactured models and equipment requiring testing that have been approved are inspected by JFIEE. Products that comply with inspections are provided with a compliance mark.

 2 Mandatory Inspection Procedure

 Application for model testing
 When someone wants to receive an mandatory inspection, they must first apply to JFIEE for a model test. Attached to the test application form are a number of samples with a file including design drawings, product specifications, outline of the manufacturing facility and test results conducted by the applicant which are submitted to JFIEE.

 Application for model approval
 Upon receiving the results of model testing that has been notified, applicants must include the results and submit an application for model approval to the Minister of Public Management, Home Affairs, Posts and Telecommunications. If approved, a model number is provided. With this, the applicant can begin manufacturing the approved model product.

 Application for mandatory model conformity inspections
 Applicants submit an application for mandatory model conformity inspections for products manufactured with the Minister’s approval.

 3 検定品目

 消防用機械器具等のうち次の12品目が検定品目（機器）に定められています。

 3 Mandatory Inspection Items

 Among fire prevention equipment, the following 12 items have been established as mandatory inspection items (equipment).

 4 Standards special exceptions system

 Among compulsory inspection items, there is fire prevention equipment that due to new technology does not conform to technical standards established by the Minister for Internal Affairs and Communications, but nevertheless has superior performance and other outstanding characteristics. If these products can be evaluated as having equal or superior performance when compared to these standards, they can receive inspection based on special standards established by the Ministry. The evaluation is carried out by the Technical Appraisal Board of experts who then submit their opinion to the Minister for Internal Affairs and Communications.
受託評価業務は、信頼に基づき消防用機械器具等に関する評価を行う業務として、特定品目以外の消防用機械器具等について技術上の基準を定め又は用い、その構造や性能等が基準に適合しているかどうかを評価するものです。

1 受託評価の方法

● 総合評価
「放水型ヘッド等を用いるスプリンクラー設備」など複雑な設備の有効性評価や特定機器の評価を行います。

● 型式評価
その構造、材質、性能等についての試験を行い、技術上の基準に適合するに至る型式を付与します。

● 型式適合評価
製造された消防用機械器具等の形状等が付与された型式の形状等に、適合することを検査するものです。型式適合評価において適合評価を受ける製品には、「適合」の表示を行います。

● 確認評価
型式評価や型式適合評価に該当しない場合の評価方法です。確認評価は次の対象について行っています。
・ レーベルホールを行った特殊消火装置
・ 外部試験機の校正
・ 消防用ホースと結合金具の着部

Commissioned evaluation service involves "evaluations of fire-fighting equipment and tools based on requests." Technical standards are defined and used for fire-fighting equipment and tools that fall outside of inspection categories in order to evaluate whether their structure, performance and other aspects comply with standards.

1 Commissioned Evaluation Method

● Comprehensive evaluations
Conduct effectiveness evaluations of complex equipment such as “sprinkler systems using discharge-type heads” and evaluations of “specific products.”

● Model evaluations
Provide models that comply with technical standards by conducting tests of their structure, material and performance and other factors.

● Model conformity inspections
Inspections to check whether the shape of manufactured fire-fighting equipment and tools comply with the model covered in the provided approval. Products that have undergone a model conformity inspection are marked with "Comply.”

● Conformity evaluation
Evaluation method if equipment does not comply with the model evaluation or model optional evaluation.
- Special fire fighting equipment after overhaul
- Connection of remote inspection devices
- Fire-fighting hoses and joint fittings

2 受託評価の手続き

● 総合評価の申請
特殊な消防用設備等で技術上の基準のないもの又は消防用設備等について総合的な評価を受けようとする依頼者は、その有効性又は他の消防用設備等との同等性等について、協会に総合評価を依頼します。

● 型式評価の申請
総合評価された基準又は既にある技術上の基準等により型式評価を受けようとする依頼者は、型式評価試験依頼書に照査書、設計図、工場設備概要図書、品質管理方法書、製造工程概要図書、市内検査体制等規定書類などの書類を添えて協会に試験を受け依頼します。

協会は、試験の結果、基準に適合するものに、型式を付与します。

● 型式適合評価の申請
型式評価を受けた者又は、協会に型式適合評価を求めた者については、協会は、型式適合評価に適合した機器に合格の表示を行います。

● 確認評価の申請
確認評価を受けようとする依頼者は、協会に確認評価の依頼を行います。

2 Commissioned Evaluation Procedure

● Application for comprehensive evaluation
People requesting evaluations of special fire-fighting equipment where no technical standards apply can request JFIE to conduct a comprehensive evaluation of its validity or equivalence with other similar fire-fighting equipment.

● Application for model evaluation
People requesting a model evaluation based on the standards under the comprehensive evaluation or other existing technical standards must submit documentation such as the specifications, design drawings, factory equipment outline sheet, quality control method form, or internal inspection system outline sheet. In addition to the model evaluation request form to request JFIE to conduct a test.

If the equipment complies with standards based on the evaluation results, a model number is provided by JFIE.

● Application for model conformity inspection
Upon receiving a model number, people can request JFIE to conduct a model conformity inspection. Equipment that complies with model conformity inspections are provided with a compliance mark by JFIE.

● Application for verification evaluation
People requesting a verification evaluation can request JFIE to conduct one.

受託評価の流れ

Flow of commissioned evaluations

① 総合評価依頼
Request for comprehensive evaluations

② 型式評価依頼
Request for model evaluation

③ 型式評価結果通知
Notification of model evaluation results

④ 確認評価依頼
Request for model conformity inspection

⑤ 型式適合評価
Conduct for model conformity inspection

申請者
Applicants

利用者
Users
3 受託評価品目

■品質評価
品質評価は、依頼に応じた消防用に供用される機械器具等に関する評価を含む基本的評価のうち、各機器単位の評価を求めることにより行われます。内訳は下記の通りです。

■Commissioned Evaluation Items

■Quality evaluation
Quality evaluation is commissioned evaluation work related to machinery and equipment provided for fire-fighting purposes based on various standards on request, and evaluates fire-fighting equipment including tools and equipment requiring voluntary indication.

■Applicable Items
- Power driven fire pumps (Voluntary indication)
- Fire hoses (Voluntary indication)
- Fire extinguishers (Voluntary indication)
- Couplings (Voluntary indication)
- Aerosol type disposable fire extinguishers (Voluntary indication)
- Electric leakage fire alarm device (Voluntary indication)
- Auxiliary alarm device
- Transmitters
- Remote inspection devices
- Arson detect devices
- Fire alarm sounders (automatic fire alarms or short circuit fire alarms)
- Standby power supplies (automatic fire alarms or gas leakage fire alarms)
- Gas cartridges for fire extinguishers
- Indicator pressure gauge (stored-type fire extinguishers)
- Cylinder valves (fire extinguishers and fire extinguisher pressurization gas cylinders)
- Extinguishing agents for fire extinguishing systems
- Residential sprinkler systems
- Fire fighting ladders
- Fire prevention connection equipment
- Hotel lay-in pipes
- Special fire vehicles related to fire pump vehicles and special fire fighting vehicles
- Portable pump truck
- Special fire fighting equipment after overhaul
- Connection of remote inspection devices

■Accreditation
Determines whether products comply with technical standards related to fire-fighting equipment and tools, and provides compliance marks for those that do. Equipment with JFE approval does not require tests to check the performance with fire prevention inspections during installation.

■適用対象
自動放水設備の地区断熱装置
非火災警報設備の非常ベル及び自動式サイレン
非常警報設備の送信設備
総合操作盤
バランス型自動消火設備
放水型ヘッド等を用いたスプリンクラー設備
屋内消火栓装置
特定駐車場用消火装置

■ conformity with technical standards related to fire-fighting equipment and tools, and provides compliance marks for those that do. Equipment with JFE approval does not require tests to check the performance with fire prevention inspections during installation.

■適用対象品目
自動放水設備の地区断熱装置
非火災警報設備の非常ベル及び自動式サイレン
非常警報設備の送信設備
総合操作盤
バランス型自動消火設備
放水型ヘッド等を用いたスプリンクラー設備
屋内消火栓装置
特定駐車場用消火装置

■Evaluation of Specific Product
On request, fire prevention equipment with outstanding performance resulting from new technology, but with no technical standards, can be tested against standards and evaluated for performance. Equipment types currently include the following:

- Specific fire extinguishing control devices (fixed fire extinguishers, impulse fire extinguishing guns, heads for fire detection)
- Special fire-fighting equipment (high pressure pumps)

■品質評価の合計点表示
Quality Evaluation Marks

<table>
<thead>
<tr>
<th>表示の種類</th>
<th>Type of display</th>
<th>消防機器の種類</th>
<th>Type of fire prevention equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>官方発表品目</td>
<td>Officially listed products</td>
<td>助力式消火ポンプ</td>
<td>Power driven fire pump</td>
</tr>
<tr>
<td>一般公共品目</td>
<td>Public Utilization Reference</td>
<td>消火ホース</td>
<td>Fire hoses</td>
</tr>
<tr>
<td>一般公共品目</td>
<td>Public Utilization Reference</td>
<td>消火消火器</td>
<td>Fire extinguishers</td>
</tr>
<tr>
<td>一般公共品目</td>
<td>Public Utilization Reference</td>
<td>火災警報装置</td>
<td>Fire alarm devices</td>
</tr>
<tr>
<td>一般公共品目</td>
<td>Public Utilization Reference</td>
<td>消防機関</td>
<td>Fire alarm devices</td>
</tr>
</tbody>
</table>

※内訳は当社の技術機器に限らず、製造又は組み立てを要する製品又は当社の技術機器に技術上の補助を要するものであることを含む。
認定機器の合格表示
Accreditation marks

<table>
<thead>
<tr>
<th>表示の様式</th>
<th>消防機器の種別</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display</td>
<td>Type of fire prevention equipment</td>
</tr>
</tbody>
</table>

- 高層ビル及び自販式サイレン 防災設備
- 地震計器
- オーバーハウリング
- 特定消火設備
- 総合設備
- Emergency bells and automatic sirens
- Emergency public address systems
- Community fire alarm system
- Package type automatic fire extinguishing systems
- Central control panel

特定機器評価の合格表示
Evaluation of specific product marks

<table>
<thead>
<tr>
<th>表示の様式</th>
<th>消防機器の種別</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display</td>
<td>Type of fire prevention equipment</td>
</tr>
</tbody>
</table>

- 特定機器評価
- Evaluation of specific product

| NS表示 | 別途指定は
<table>
<thead>
<tr>
<th>NS mark</th>
<th>etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Similar components</td>
<td></td>
</tr>
</tbody>
</table>

パッケージ型自動消火設備の構成部品
Components of package type automatic fire extinguishing systems

動力消防ポンプ（消防ポンプ自動車）
Power driven fire pumps (fire fighting pump truck)

特殊消火装置（化学消防ポンプ自動車）
Special firefighting equipment (chemical firefighting pump truck)

特殊消火装置（はしご付消防自動車）の操作試験
Operating test of special firefighting equipment (fire truck with ladder)

動力消防ポンプ（可搬消防ポンプ）
Power driven fire pumps (portable fire prevention pump)

消防ホース
Fire hoses

消防ホースの圧力試験
Pressure test of fire hoses

消防用吸管
Fire suction hose
性能評価業務

Special Fire Prevention Equipment performance evaluations

In recent years, structures that are protected from fire have rapidly increased in scale, number of floors, depth underground, and complexity and their uses and forms of use have diversified. With these circumstances in mind, performance-oriented standards have been implemented for a more flexible approach to the adoption of new technologies that were not anticipated as technical standards for fire prevention equipment, chiefly as part of specification regulations.

If special fire-fighting equipment and those that do not comply with standards under technical standards for fire-fighting equipment stipulated by Cabinet Order has been certified by the Minister for Internal Affairs and Communications as having performance equal to that of fire-fighting equipment that is normally used and is installed and maintained according to plans concerning the installation and maintenance of special fire-fighting equipment, it can be installed in place of fire-fighting equipment that was originally required to be installed and maintained. Manufacturers that intend to receive this certification by the Minister for Internal Affairs and Communications are legally required to obtain a performance evaluation by an organization such as the Japan Fire Prevention Equipment Inspection Institute.

JFEI began performance evaluations of special fire prevention equipment from June 2004 as an organization that conducts performance evaluations in accordance with the Fire Services Act by employing advanced technological capabilities and testing equipment built up through its mandatory inspections of fire prevention equipment.

調査・研究業務

Research and Inspection

JFEI carries out all kinds of inspections and research useful for improving fire prevention equipment and the testing and inspection of that equipment.

1 Research on Technical Standards

In order to plan proper and rational inspections and to provide for newly developed fire prevention equipment, a standards research committee has been established to research and discuss technical standards, testing and inspection methods.

2 Response to New Developments in Technology

When a product is developed with new technology as fire prevention equipment that does not conform to technical standards but possesses superior performance, a Fire Prevention Equipment Assessment Committee deliberates whether or not this equipment is at or above these standards.

3 Other Types of Study and Research

Research into the effective period of use of fire-fighting equipment and tools, performance tracking surveys, research into test methods for new types, and collection of written material from overseas as well as survey work and incident reports on fire-fighting tools and equipment are conducted by JFEI. This research is utilized when formulating technical standards corresponding to new technology.
International Cooperation

With growing movements to create international standards for technical standards and testing methods, JFEI operates from the standpoint of an inspection organization. As part of these operations, it provides testing equipment and laboratories for conducting tests related to international standards, conducts testing and research required for creating international standards, and also participates in international meetings, as it takes on international roles and responsibilities as part of its activities.

1 ISO Meetings
The International Organization for Standardization (ISO) is also examining the introduction of international standards ISO/TC21 (fire-fighting equipment) for fire-fighting equipment and tools. Japan has been taking part in meetings for ISO/TC21 since 1979 and also established an ISO/TC21 Committee in Japan (former National Council for Fire Protection) to study technical standards for fire-fighting equipment. JFEI also utilizes the results of testing and research to participate as a member of the ISO/TC21 National Conference.

2 AFC Meetings
To exchange information with testing agencies related to fire prevention in Asian countries, JFEI is also a member of the Asia Fire Protection Council (AFC) that was established in 2005. JFEI participates in conferences organized by AFC, including technical commissions, as part of efforts to fulfill its roles and responsibilities within Asia.

3 Other Initiatives
JFEI is active in hosting trainees from various countries, with trainees coming from more than 21 countries so far. Including China, Korea, and Taiwan, JFEI employees have also been dispatched to countries such as China, Korea, Taiwan, and Bangladesh to provide instruction on fire-fighting technologies.

JFEI runs a range of public relations activities to help increase understanding of fire-fighting equipment and tools amongst the ordinary public as well as experts in the fire-fighting sector.

1 Publishing Journals
JFEI regularly publishes the journals “DAYORI” and “JHKOU” and sends it to fire headquarters around the country as well as associated agencies.

2 Organizing Events
Exhibits are run at regular fire-fighting events such as the Tokyo International Fire and Safety Exhibition to help increase awareness of JFEI activities.

3 Providing Information Via The Homepage
The latest information related to updated systems is listed on the JFEI homepage. Other useful information includes descriptions of fire-fighting equipment for the public, and acquisition and expiry status of models that can be used for fire-fighting work.

4 Information Center
The Information Center showcases various fire-fighting equipment, and is open to the public in April every year. Tours are also available for interested parties.
Various Applications of Fire Equipment

Safety and comfort require the use of fire-fighting equipment throughout the town to ensure safety. Here are some examples of fire-fighting equipment and tools that might be installed nearby.

- **Detection Systems**: Various types of detection systems are used around town to detect and respond to fire hazards.
  - Smoke detectors
  - Heat detectors
  - Optical detectors

- **Firefighting Equipment**: Essential tools for effective firefighting include:
  - Fire hoses
  - Fire extinguishers
  - Fire alarm systems
  - Fire hydrants

- **Specialized Equipment**: Additional gear such as:
  - Firefighting pants
  - Fireproof clothing
  - Firefighting helmets

Compliance marks will be provided to products that comply after April 1, 2014. Compliance marks of the old system are also valid, and may continue to be sold.
Access Map & Disposition of JFEII

本所案内図
〒182-0012
東京都調布市深大寺東町4-35-16
Tel. 0422-44-7471 (代表)
Fax. 0422-47-3991

中央線 高松駅前口（西）バス約50分
先：深大寺駅 無事台行
又は飯田北口行
下車：消防大学前

中央線 東京駅口（東）バス約20分
先：野新谷行
下車：消防大学前

京王線 深大寺駅（北）バス約18分
先：新谷地区行
下車：消防大学前

日比谷線 野坂橋駅（西）バス約20分
先：新谷地区行
下車：消防大学前

大阪支所案内図
〒530-0001
大阪府大阪市北区梅田1-3-1-600
(大阪駅前第2ビル6階)
Tel. 06-6345-7911
Fax. 06-6341-6738

フロアマップ

大阪支所案内図
〒530-0001
大阪府大阪市北区梅田1-3-1-600
(大阪駅前第2ビル6階)
Tel. 06-6345-7911
Fax. 06-6341-6738