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Service & Repair of Perfect Fry System Fire Extinguishers

Method Statement

Issued to:
This is a Generic Document

Issued by:
Fire Queen Limited | 23 –37 Broadstone Road | Reddish | Stockport SK5 7AR.

Project:
This is a Generic Document

Commencement of Works:
To be Arranged

Duration:
Up to 1-Day

Personnel involved:
1 Service Technician

On site supervisor:
N/A

Head Office contact:
Fire Extinguisher Service Team Leader



Save Money Today!
Combine Your Fire Extinguishers
Fire Alarm & Emergency Lighting Systems



Fire Queen Limited | 23-37 Broadstone Road | Reddish | Stockport | Cheshire | SK5 7AR | Registered in England Company No. 1219302 | Inc The Fire Appliance Company

✓ Fire Extinguishers ✓ Fire Alarm & Emergency Lighting Systems ✓ Dry Riser Maintenance ✓ Fire Training ✓ Fire Risk Assessment

The Task & Work System

Fire Queen Limited are suppliers & installers of fire protection equipment & associated products. Services provided include specification, training, installation & maintenance.

Equipment may be installed or require maintenance in an infinite variety of applications, locations & building types throughout the United Kingdom.

All works are carried out by competent, fully trained & qualified individuals working either alone or with colleagues. Sub-contractors are not used.

Fire Queen Limited enjoys ISO 9001:2008 accreditation for installation & maintenance work & is independently audited by ISOQAR, BAFE & IFEDA on a regular basis. The company is also a member of the Fire Protection Association & has gained **safecontractor** approval.

The work procedures used within the company incorporate safe systems of work & form part of all accreditations.

All field operatives receive appropriate levels of training, & management supervision.

We expect all clients to comply with the statutory requirements of Health & Safety legislation & inform Fire Queen personnel of all risks to their health & safety within areas controlled by or belonging to the customer or client.

Work undertaken is not of a hazardous nature & risks to employees & those not in our employ are low.

Health & Safety

All Fire Queen personnel have received basic health & safety training. This includes use of personal protective equipment, manual handling & first aid. Training records are held within the company Head Office. The company Health & Safety Policy indicates the way that Fire Queen manages health & safety requirements. Employees are empowered to take whatever action they deem necessary to ensure the health & safety of themselves, their colleagues & others who may be affected by their actions or the actions of others in the event of imminent danger.

Structure

All field operatives are directly supervised either by the site supervisor or the Head Office contact shown on page one. As all operatives are fully competent, the level of supervision is dependent upon the task in hand. Site supervisory assistance is always available upon request from field operatives.

Working Procedures

All work is undertaken in accordance with BS EN ISO 9001, company operating procedures, contract instructions & industry guidance on safe systems of work. All operatives will conduct themselves in accordance with company codes of practice. The clients own health & safety instructions may take precedence when they are of an equal standard or higher.

Site Access

Fire Queen Limited expects the client to provide whatever information & supervision as necessary to ensure the safety of their staff during all site works. Installation & maintenance work is generally carried out between 8.00am & 6.00pm. Monday to Friday.

Alternative work patterns can be arranged through the Head Office contact or the site supervisor. When out of normal working hours is undertaken, Fire Queen expects adequate safety arrangements to continue. If the work to be undertaken requires the issue of permits to work, then our operatives should be informed of all relevant detail prior to commencement of work.

Tools & Personal Protective Equipment

All tools & personnel protective equipment in use by Fire Queen operatives is regularly inspected during field quality & supervisory visits. All operatives have instructions to withdraw damaged or worn equipment, & obtain replacements immediately.

Plant & Machinery

All plant & machinery in use by Fire Queen operatives is regularly inspected during field quality & supervisory visits. All electrical equipment is inspected & tested in accordance with the requirements of the Electricity at Work Regulations 1989. Test certificates are held within the company Head Office.

Transport

Fire Queen Limited provides vehicles suitable for the task in hand.

Storage of Tools, Plant & Equipment

If site storage is required, the client or customer will be approached for suitable facilities by the company Head Office contact, the site supervisor or the field operative.

Waste

The work undertaken does not generate dangerous waste. All waste materials, including any hazardous materials produced during the course of works will be removed from site for onward disposal. Client or customer waste materials produced during the course of works will not be removed & will remain the responsibility of the client or customer.

Equipment may be installed or require maintenance in an infinite variety of applications, locations & building types throughout the United Kingdom.

Program of Works

The work involves the service of the self-enclosed Perfect Fry System wet chemical fire extinguishers. A permit to work system may be operated in certain areas. Specialist training has not been required in order to complete works.

Scheduled servicing & reactive callouts will normally be carried out between the hours of 8.30 am & 4.30 pm. Out of hours work may be carried out by special arrangement.

A single service vehicle will normally be used.

On site storage facilities are not normally required.

Fire Queen operatives will carry out the service procedures as required. Basic hand tools are required in order to complete these procedures. Specialist plant will not be required or used by Fire Queen operatives & no actions will create a noise or obstruction risk.

Commencement & completion of works does not present any foreseen danger to Fire Queen operatives, other contractors or members of the public. Care will be exercised at all times so as not to present or contribute to any unsafe occurrence. Correct manual handling techniques will always be used.

None of the materials used for the completion of duties are to be regarded as hazardous or require the provision for control measures.

The chemicals contained within each fire extinguisher are regulated by COSHH. Fire Queen operatives have been issued with appropriate data sheets & received health & safety training accordingly.

All waste materials generated by Fire Queen operatives will be removed from site for onward disposal during & following completion of works.

Fire Queen operatives on site will follow the instructions of the client Contract Manager.

All operatives will wear approved safety footwear & overalls. Additional personnel protective equipment will be worn or used at the discretion of the service technician or following instruction from the client Contract Manager.

Safe System of Work

Perfect Fry System (PFS) Fire Extinguishing System Inspection

Supplementary Guidance Notes | Use in conjunction with:

- PFS Manual
- PFS System Age Guide
- Risk Assessment
- Method Statement
- Photographs & Videos.

Before commencing work on a PFS unit, always ensure:

1. The Unit is turned off & unplugged from mains power outlet
2. The Unit & any contained cooking oil is cool; ideally, the unit should not have been turned on prior to FQ attendance [Confirm with the Duty Manager if unsure].

Note: Do not proceed if the oil has been heated or the unit cannot be disconnected from the mains power outlet.

Removal of Extension Spring:

1. Unscrew & remove right-hand side cover of the PFS Unit to enable access to the Extinguisher [see photograph 1]



Photograph 1

2. Install Safety Pin prior to carrying out any further actions [see point 1 on page 10 of PFS Manual]
3. Detach Extension Spring using the correct method described below; you will have opportunity to practice this in our workshop [see photograph 2 & follow the link for a short video]. Points to note whilst removing the Extension Spring are:
 - Always Wear Eye Protection
 - Wear Protective Glove on the hand used to hold the spring
 - Using your body weight, bend at the knees & pull the spring downwards & backwards
 - Use your other hand to unhook the bottom of the spring & release the tension in a slow, controlled manner



Photograph 2

[Click Here for Spring Removal Video](#)

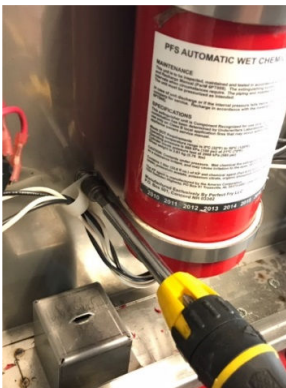
Removal, Inspection & Re-fitting of the Fire Extinguisher:

1. Remove Hitch Pin Clip [see point 3 on page 10 of PFS Manual]
2. Disconnect Pressure Switch Wires carefully [see photograph 3]



Photograph 3

3. Disconnect tubing from PFS Extinguisher [see point 5 on page 11 of PFS Manual]
4. Remove Mounting Brackets [see point 6 on page 11 of PFS Manual & also photographs 4 & 5]



Photograph 4



Photograph 5

5. Ensuring the Safety Pin is still in place; remove the Extinguisher from the PFS Unit & check using the following method:
 - Check Service Record Label to ensure which type of service is required [Replace Extinguisher if 12 years old, see page 9 of PFS Manual]
 - Test Gauge with Gauge tester & fit Gauge Patch
 - Test Pressure Switch resistance with Multi-Meter [see photograph 6 showing correct setting to use]



Photograph 6

- Multi-Meter screen must read “0” [see photograph 7]



Photograph 7

- Weigh the Extinguisher & ensure this conforms to the recorded weight on Service Record Label
- Record inspection details on the Service Record Label

Inspection of Wiring & Piping:

1. Visually inspect all tubing & wiring inside the PFS Unit for signs of damage or wear
2. Remove the Fusible Link & proceed as follows: [see point 6 on page 6 of PFS Manual]
 - Ensure the Fusible Link Connectors are free of excessive grease & in good condition [replace if required]
 - The Fusible Link should be replaced on each service visit [at least annually]
 - Ensure the correct replacement Fusible Link is used [see photograph 8]



Photograph 8

Note: Refer to the PFS System Age Guide to determine if you should use the “New” or “Old” Fusible Link & also to ensure the Fire Extinguisher is of a compatible model [Older Fire Extinguishers CANNOT be used in the Newer PFS Units. Newer Fire Extinguishers ARE however compatible with Older PFS Units].

3. Remove the Upper & Lower Nozzle Blow-Off Caps & carry out the following checks: [see photographs 9 & 10 showing both top and bottom of the inside of the main fryer compartment].
 - Ensure both Nozzles are free of excessive grease
 - Ensure Blow-Off Caps are in good condition [replace if required]

- Re-Fit Blow-Off Caps



Photograph 9



Photograph 10

4. Ensure Manual Pull Rod is in place & correctly fitted; replace if required [see point 4 on page 5 of PFS Manual]
5. Re-Fit the Fire Extinguisher to the PFS Unit using the Mounting Brackets; tighten correctly to ensure the Fire Extinguisher is secure [reverse of process shown in point 6 on page 11 of PFS Manual]
6. Re-Fit the Tubing to the Fire Extinguisher & tighten correctly [reverse of process shown in point 5 on page 11 of PFS Manual]
7. Re-Fit the Hitch Pin Clip, ensuring all points below are covered [reverse of point 3 on page 10 of PFS Manual]
 - The Hitch Pin Clip must be horizontal
 - Ensure the Hitch Pin Clip is fitted correctly [see photograph 11]
 - Ensure the Hitch Pin Clip Cable is free of obstruction [see photograph 11]



Photograph 11

8. Re-Attach the Extension Spring using the correct method described below; you will have opportunity to practice this in our workshop [see photograph 12 & follow the link for a short video].



Photograph 12

[Click Here for Spring Refitting Video](#)

- Always Wear Eye Protection
- Wear Protective Glove on the hand used to hold the spring
- Using your body weight, bending at the knees & pull the spring downwards & backwards
- Use your other hand to hook the bottom of the spring & release the tension in a slow, controlled manner

Note: If fitting a new Extension Spring, ensure the Spring & the Fire Extinguisher are compatible [Higher tension “New Style” springs cannot be used with “Old Style” Extinguisher]. If the spring is showing excessive wear or is damaged, replace as necessary.

9. Re-Connect the Pressure Switch Wires
10. Remove the Safety Pin from the Fire Extinguisher

Note: Ensure the Hitch Pin Clip Cable is fitted correctly & under tension prior to removing the Safety Pin; this will ensure that spring tension cannot cause the Fire Extinguisher to discharge.

11. Re-Fit & screw in right-hand side cover of PFS Unit
12. Re-Fit Plug to mains power outlet
13. Ensure the correct amount of cooking oil is added prior to turning PFS Unit on; confirm this with the Duty Manager if unsure
14. Turn on the PFS Unit
15. Check for Error Messages

Note: Turning on the PFS Unit when not correctly filled with oil can cause excessive heat build-up, breaking Fusible Link & discharging the Fire Extinguisher.