

SERVICE PERSONNEL

Service of fire protection systems, including daily operator inspections, shall be performed by a competent person. The competent person should be accredited to the level required for the service being conducted.

RECORDS

Records shall be retained by the owner and shall include the following details:

- Service activities.
- Defects.
- Rectifications and by whom.
- Date conducted.
- Risk Assessment
- Baseline data. including:
 - System discharge sequence alarms, time delays and shutdowns.
 - Enclosure gross volumes for total flooding systems.
 - Agent type, Number of generators, Application density.
 - Replacement Date of FirePro Units.
 - Type of detection fitted, Number and location of actuators.
 - Date of initial install and service life of all items.

SERVICE TAG or LABEL

A service tag or label should be provided for each fire protection system to record the last level of inspection, test and survey performed.

The tag or label shall not carry any information other than that shown. The level of service carried out shall be etched, stamped, or indelibly marked on the tag or label in the box corresponding to the year and month in which the routine was performed, with a figure representing the routine as follows:

1. Six-monthly
2. Yearly
4. Five-yearly
5. Recharge after use

The figures shall be not less than 3 mm high, and the markings shall be such that the figures are legible.

When a new service label is provided, the label shall be applied adjacent to the completed label so that the previous service history is not obscured.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	OCT	NOV	DEC	
2019											2019
2020											2020
2021											2021
2022											2022
2023											2023
2024											2024
2025											2025
2026											2026

PRECAUTIONS

Prior to commencing any service activity, the system should be isolated to prevent activities from causing discharge of any extinguishing agent. On completion of any service, the system shall be restored to its normal operating condition.

DEFECTS

Critical defects shall be rectified with the minimum of delay and before the mobile or transportable equipment is operated. Critical defects shall be reported to the responsible entity and confirmed in writing within 24 h. Unless alternative risk reduction measures are implemented for the safety of personnel, equipment shall not be operated until the critical defects are rectified.

An 'out-of-service' tag system should be used to indicate that the system is temporarily impaired. Tags should be attached to the affected equipment for the duration of the impairment. Non-critical defects shall be rectified as soon as practicable and reported to the responsible entity.

DESIGN SURVEY

The design survey together with the inspection, test and maintenance regime ensures that the fire systems are functional and capable of performing as designed. The design survey shall check against the baseline data, for alterations, changes in use or operating environment, or other factors that could adversely affect the performance of the fire protection system.



Date of Service		Machine Identifier	
Service Completed by:	Name	Description	
	Signature	Branch / Location	

SIX MONTHLY SERVICE REQUIREMENTS

	Item	Pass/Fail	Action / Comments
1.	Isolate the system – this process will vary. Refer to manual for each panel.		
2.	Control panel (a) Clean and remove dirt, grease and foreign material. Replace any parts that appear damaged or are painted. (b) Check that all indicators show normal condition.		
3.	FirePro Aerosol Generators (a) Inspect FirePro generators to ensure they are in good condition. (b) Check mounting brackets are in good condition and secure. (c) Check Dust Covers are in good condition – replace as necessary. (d) Check FirePro Generators are at predetermined aiming points		
4.	Electrical system – Inspection (a) Check Manual Actuators are secure, clean, undamaged. (b) Check that anti-tamper seals/pull pins are in place and secure. (c) Check all wiring, connection and supports are intact, not damaged and in correct position.		
5.	Labels Check manual release, system warning and instruction labels are securely in place, visible and legible.		
6.	Test the fault monitoring system by disconnecting and reconnecting all connected detection devices and the siren strobe circuit one at a time. Ensure the "Fault" LED indicator illuminates and the internal sounder is heard each time a circuit is disconnected.		
7.	Discharge Testing from Control Panel (a) Perform a manual discharge test by pressing and holding both mode switches on the panel continuously for 5 seconds. (b) Following activation, ensure the Test Module Red LED has operated. (c) Isolate the panel to silence alarm. Panel should now display a fault. (d) Reset Test Module. Panel should no longer be in fault condition. (e) Turn off the Isolate function.		
8.	Discharge Testing from External Devices: Each detection/manual actuator device installed must be tested individually. (a) Perform automatic discharge by activating the detectors or manual actuator. (b) Following the activation ensure the Test Module Red LED has operated. (c) Isolate the panel to silence alarm. Panel should now display a fault. (d) Reset Test Module. Panel will stay in alarm until reset. (e) Reset the control panel by pressing and holding a single mode switch until 2 beeps are heard. Panel should no longer be in alarm/fault condition. (f) Replace Anti-Tamper Seals on Manual Actuators.		
9.	System control and indicating equipment. (a) During discharge test, ensure operation of all installed siren/strobe(s). (b) During discharge test, ensure operation of all installed shutdown relays. This must shutdown any equipment specified in the risk assessment. (c) Test backup battery capacity. Replace backup battery every 2 years.		
10.	Design Survey - check against the baseline data, for alterations, changes in use or operating environment, or other factors that could affect the performance of the fire protection system.		
11.	Update Service Tag – and logbook		

IMPORTANT: Testing should be performed when the fire control panel is not in an alarm/fault condition.



Date of Service		Machine Identifier	
Service Completed by:	Name	Description	
	Signature	Branch / Location	

ANNUAL SERVICE REQUIREMENTS

	Item	Pass/Fail	Action / Comments
1.	Complete all 6 monthly routine service activities – this process will vary. Refer to manual for each panel.		
2.	FirePro Aerosol Generators – (a) Check listed manufacture date for installed FirePro generator. Replace any generator that has exceeded service life. (b) Check that installation location of FirePro generators and coverage remains appropriate.		
3.	Actuation system – (a) Conduct continuity test on actuation circuit. This will require a multi-meter. (b) Function test all circuits (c) Check all wiring for earthing		
4.	Detection System – (a) Function test all detectors (b) Check all wiring for earthing (c) Check that detector coverage remains appropriate. In particular, check for the presence of unprotected areas where sources of fuel and heat exist.		
5.	System Interface and Shutdown system – (a) Ensure all equipment shutdowns operate on system alarm (b) Record delay time and compare with delay set during install. If the delay time has changed from install, it will need to be rectified. Cause of change must be recorded.		
6.	Discharge Testing from Control Panel – (a) Perform a manual discharge test at the control panel, as per 6 monthly service.		
7.	Discharge Testing from External Devices – (a) Perform automatic discharge by activating the detectors or manual actuator, as per 6 monthly service. Each detection/manual actuator device installed must be tested individually.		
8.	Operational Conditions – (a) Check that the detector response and extinguishing agent discharge or retention will not be adversely affected by such things as enclosure openings, ventilation airflows or high temperature protected areas.		
9.	Environmental Conditions – (a) Check that the fire system and its components are suitable for the environmental conditions in which the machine is operating, e.g. that components are suitable for underground mining, and road gradient and slopes are within container orientation limits.		
10.	Design Survey - check against the baseline data, for alterations, changes in use or operating environment, or other factors that could affect the performance of the fire protection system.		
11.	Risk Assessment – required to be reviewed every 5 years or after any incident. Review document to ensure system compliance. Check if document is current.		
12.	Update Service Tag – and logbook		

IMPORTANT: Testing should be performed when the fire control panel is not in an alarm/fault condition.