Commissioning Document Set

Perimeter Security Monitored Pulse Fencing

Version 2.3

Purpose

The purpose of this set of documents is for the Gallagher Certified Channel Partner and System User to have reference information on the Gallagher monitored pulse fence system at the time of commissioning and handover of the system.

It provides a method to confirm compliance to the Gallagher International Code of Practice (3E0654) and the installation methods and directives given by Gallagher in the applicable installation and product documentation.

Reference Documentation

International Code of Practice – Perimeter Security Systems (3E0654)

Installer Reference Guide – Perimeter Monitored Pulse Fencing (3E0901)

Local Standarsd - as applicable

Document Section Overview

The sections of this document should be considered as independent entities and can be separated as necessary. This Commissioning Document Set is divided into three aspects.

Certification Inspection Criteria

This outlines the minimum acceptance criteria for inspection of a site. This certification must be met before approval will be given by a Gallagher representative.

Certification Inspection Checklist

This document is used during the inspection process to record all details of site inspection.

System Commission Sheet and Testing Schedule

This document details the minimum tests and commissioning steps required to validate and release the Gallagher pulse fence system to the user. This must be completed by the Gallagher Certified Channel Partner and verified by a Gallagher representative.

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Perimeter Security Monitored Pulse Fencing

Certification Inspection Criteria

This document defines the minimum inspection criteria used by Gallagher representatives for inspection and certification of a Gallagher pulse fence system. It defines the check points listed in the Certification Inspection Checklist and should be completed before the system is handed over to the end user.

1. Safety

Code of Practice:

- Check the installation meets the Gallagher Code of Practice minimum standard.
- Check that ancillary equipment is compatible with the Gallagher equipment.
- Check that only Gallagher supplied and/or approved product is used.
- Check that prevention of inadvertent contact by the public has been installed.
- Check that the installation is not within a hazardous area.

Warning Signs:

- Check that warning signs are fitted at a maximum spacing of every 10m (30ft).
- Check that warning signs are fitted at every gate, every change of direction, and included on site noticeboards (alongside chemical notices, site warnings, etc.)
- Check that warning signs are visible from both sides of the fence structure and the public access area
- Check that warning signs are securely mounted, tied, or clamped close to a support post (to prevent wind influence).

Hostile Toppings:

- Check that any hostile toppings, razor wire, or barbed wire are at a reach distance of at least 1m (3ft) away from the pulse fence to prevent simultaneous contact (dependent on customer site requirements).
- Check that any hostile toppings are not electrified.

Entrapment Points:

- Check that no mantraps (entrapment points) exist.
- Check that distances between pulse fencing and other structures are compliant with the Gallagher installation standard.

2. Fence Line Inspection

2.1. Installation of Physical Barrier (Host Fence):

- Check that the physical barrier (host fence) installed is a minimum of 1.5m (5ft) high (physical fence height may vary depending on local standards/requirements) and provides protection to the public from the pulse fence.
- If installation of energized security fence is on to the physical fence, check the fence line for stability, posts are upright and in a straight line between strain posts, the installed fence fabric is sound and compliant to prevent inadvertent contact of the pulse fence.
- If the physical fence is unsuitable to mount the energized security fence, installation of the energized security fence as a free-standing fence need to take into account any possible man trap areas.
- Check that the fence is not attached to overhead power-line support structures.

2.2. Quality of Fence Manufacture:

The quality of the physical fence will have an impact on the energized security fence reliability if mounted on to the physical fence. If the energized security fence is installed as a free-standing fence this section need not apply.

- Check the quality of all welded joints, making sure they have been cleaned and final coatings are appropriate for the installed system.
- Check that metallic structures and components are made of compatible materials.
- Check the components used in the fence structure are suitable for the environment of installation, and suitably protected from corrosion.

2.3. Intermediate Post Fitting:

- Check that intermediate posts are mounted correctly, and all fixings are secure, a minimum of 3 fixings per post over 2.4m (8ft) high.
- Check that there are no deflections vertically or horizontally greater than allowable.
- Check that the distance between intermediate posts does not exceed 4m (13ft).
- Check that the pulse fence extends a minimum of 600mm (24in) above the physical fence barrier/mesh.

2.4. Strain Post Fitting:

- Check posts are stable and fit for purpose.
- Check that strain posts do not protrude above the Gallagher security post.
- Check that stain posts are installed at every change of zone and change in direction.
- Check the bracing does not compromise the security of the perimeter nor create a point of entrapment.
- Check that bracing is fit for purpose and will provide necessary stability and strength of the fence structure.

2.5. Vegetation and Debris:

- Check that vegetation is cleared at least 1m (3ft) from the fence in both directions.
- Check that over hanging trees will not affect the energized security fence or provide climb points.
- Check that all scrap and construction debris is removed from the fence line prior to energizing the system.

2.6. Level of Security:

- Check that locations where the pulse fence does not protect the perimeter have been identified and acknowledged by the site operator/owner.
- Check that the installation meets the security requirements of the site.

3. Fence Wire and Insulation

Insulators:

- Check that strain insulators are fitted correctly.
- Check that intermediate insulators are fitted correctly, pins are secure, and break-away claws have been used correctly.
- Check that energized fence wires are fitted correctly in insulators.
- Check that Gallagher tensioners are installed correctly using Gallagher approved mounting techniques.
- Check that wire is secure around centre spindle, and the pawl is locked in the correct position.

Fence Wire Installation:

- Check that the pulse fence wire and insulated HV cable is supplied by Gallagher.
- Check that spacing between adjacent wires is a minimum of 50mm (2in).
- Check that all wires are tensioned evenly to a level to maintain fence geometry, deflect when attacked, and will not sag under normal conditions.
- Check that wire tensioning devices are accessible for maintenance purposes.
- Check that all wire joints are clamped securely and use Gallagher approved methods.

Separation Distances:

- Check that the clearance distances between pulsed conductors and other aspects of the installation (physical barrier, buildings, other fence circuits, etc.) are compliant with the Gallagher installation standards.
- Check that the distance between energized fence wires and any power or communications lines are compliant with Gallagher installation standards.
- Check if a fence wire is closer than 30mm (1-3/16in) to any object, that insulation is applied to it.
- Check that cable insulation is sturdy, continuous, not cut in any place, rated for HV voltages (>10kV), and is securely clamped where necessary.

4. Gates

4.1. Installation of Gates:

- Check that gate posts and leaves are upright in the open and closed position. Bottom wire to be a maximum of 125mm (5in) from ground level.
- Check gates for quality of welds, and final coatings
- Check that all gaps are a maximum of 50mm (2in) or adequately protected with appropriate anti climbs, including hinge points, latch points, abutments, etc.
- Check locking devices operate effectively.
- Check gate geometry has been maintained after pulse fence installation.
- High voltage gate switch installation should be suitable to allow maintenance to be carried out as required

4.2. Gate Safety and Detection:

- Check that all gate leaves are bonded to the fence structure earth.
- Check that gates can be opened and locked by the operator without touching energized fence wires and that any gate switch fitted has free operation.
- Check the gate switch(es) are installed correctly to Gallagher specification. (Mounting brackets, mechanical stop, drip loops, moisture ingress protection, earth bolt use, distances between parts, etc.)
- Check, when needed, that the earth bolt of the gate switch is used correctly and making good contact with the mounting bracket or gate structure.
- Check the placement of gate switch(es) are not a hazard to persons or vehicles and suitable mechanical protection has been implemented.
- Check the gate switch functions within 50mm (2in) of opening and alarm annunciation has been confirmed.

4.3. Gate Configuration and Fence Interface:

- Check that distances between gate (physical fence) and the pulse fence are compliant to Gallagher installation standards.
- Check gate hinges, support structures, wheels, drop rods, etc. are protected against tampering and scaling.
- Check that pulse fence configuring does not clash when gates are operated.
- Check that any differences in height of fence and gate do not create a climbing point.
- Check that all gate feed wire coils installed are fit for purpose and will not snag during gate operation.
- Check that gate feed wire coils cannot be accessed from the public area but are not too close to the ground where they can be damaged.

5. Configuring

5.1. Configuring Functionality and Appearance:

- Check that wire configurations are is tidy, straight, bends are consistent and wire is of an even length.
- Check that configurations are straight and vertically in line.
- Check that configuring is complete on energized and earth wires, and is a minimum distance of 30mm (1-3/16in) from other wires or fence structure.
- Check that the top wire is an energized wire unless under overhead power lines.
- Check that configuring does not contain 2 adjacent earth wires or 3 adjacent energized wires of the same circuit.

5.2. Anti-Climb Protection:

- The physical barrier fence should be shorter than the pulse fence unless protected by anti-climb provisions.
- Check that the anti-climb configuring protects the tensioners.
- Gaps in the pulse fence are minimized effectively to detect and/or prevent intrusion.
- Check that anti-climb applications have been used at strain positions, junctions, and gateways.
- Wherever possible, 4 or more wires should be used for anti-climb and be connected in series.
- Check the anti-climb wires are sufficiently supported to minimise damage and maintenance.
- Check associated structures in the vicinity of the fence line are suitably protected from climbing (lamp posts, camera poles, etc.).

5.3. Anti-Intrusion Protection:

- Construction of anti-burrow (anti-dig) methods is fit for purpose and do not clash with the application of pulse fencing.
- Bottom fence wire is a maximum of 125mm (5in) from ground surface, and a minimum of 30mm (1-3/16in) from structures (unless insulated).

6. Controllers and Associated Equipment

6.1. Controller Mounting and Protection

- Check that control and electrical equipment is located in a suitable place and cannot be influenced by external sources (environment, vandalism, wildlife, etc.).
- Check equipment can be safely accessed for service and maintenance.
- Check controllers are mounted square, level, and fixed securely.
- Check that all cabling is suitably contained and routed in a tidy manner.
- Check that fence feed cables are securely contained and terminated into the controllers.
- Check the distance between fence HV cables and low voltage cabling is compliant.
- Check that the 0V (DC negative, GND) of the system is common between devices.

6.2. Synchronization:

- Check that the system is synchronized both site wide and locally at field cabinets.
- Check that synchronizing settings are correct on every controller.
- Check, if synchronization cannot be achieved, the separation between non-sync circuits and fence-lines is appropriate (physical barrier or separation distance).

6.3. Auxiliary Equipment:

- Check that auxiliary equipment is installed as appropriate and the necessary isolation distances between services (e.g. separation from HV cabling) have been maintained.
- Check that all cabling is suitably mounted and routed in a tidy manner and applicable termination techniques used (ferrules, terminal blocks, etc.).

7. Earthing and Lightning Protection

7.1. Earthing of Structures:

- Check that exposed metallic parts of the physical barrier fence and pulse fence supports are earthed.
- Check that metallic structures (buildings, rooftops, etc.) have been effectively earthed. If this is a separate earthing system, check that the pulse fence earth system is independent.
- Check that all strain posts are bonded to the earth wires of the pulse fence.
- Check that all gate posts are bonded to the earth wires of the pulse fence.
- Check that all gate leaves are bonded to the earth wires of the pulse fence.
- Check that earthing is continuous under gates when necessary.

7.2. Earthing of Equipment:

- Check electric fence earth continuity is fit for purpose.
- Check that multiple fence controller earths are bonded together.
- Check the minimum requirements for fence earthing have been met and installed for the fence controller in an appropriately secure location and are connected correctly.
- Check additional earth rods have been installed if poor earth continuity.
- Check that at least 10 m (30 ft) has been maintained between the pulse fence earth and all other earthing systems. (local standards / requirements are to be taken into consideration).
- Check if an earthing mat system is in use that the pulse fence system is connected to it directly and the pulse fence system **DOES NOT** use a separate earth. Authority for this connection may be required.

7.3. Lightning Protection:

- Check a lightning earth system has been installed correctly in an appropriate secure location.
- Check the lightning (reference) earth stakes are at least 10 m (30 ft) from any other earth system.
- Check lightning diverters have been adjusted correctly.
- Check the earth side of the lightning diverters is not directly connected to the fence earth or associated structures.

8. Cabling

Fence Feed (Lead-out) Cables:

- Check fence feed cables are mechanically protected (conduit, ducting) or located in a manner as to minimize damage and tampering.
- Check conduit/ducting is bought as close as practical to the termination joints (HV cable to fence).
- Check feed cable terminations on fence wires are clamped appropriately and the feed cable is stress relieved through insulators or with cable ties. Connection of feed cabling is at a strain position, not mid-span.
- Check that appropriate jointing sealant has been used where necessary.
- Check that only Gallagher HV cable has been used for fence feed cables.

Underground Cabling and Ducting:

- Check that any ducting used is fit for purpose, and positioned locally to the fence controllers and associated equipment.
- Check that no other cables (other services) are installed in lead out ducting and the minimum separation exists between them.
- Check that ducting is sealed against weather and vermin and suitably secured.

9. Commissioning

9.1. System Power and Communications Established:

- Check that mains power control is adjacent to controllers and that power is established.
- Check that back up batteries are installed and connected.
- Check that any associated UPS systems have been identified and established.
- Check that any communications between controllers and associated equipment is established.

9.2. System Performance:

- Check that the testing outlined in the System Commission Sheet and Testing Schedule has been completed and the system performs as required.
- Confirm that the installed system is able to be armed and disarmed using the designated control methods.
- Confirm that, after arming, there are no standing alarms associated with the system.

9.3. System Alarm Testing:

- Confirm all fence zones generate alarm with short circuit (wire to wire) and open circuit (cut wire) where possible.
- Confirm all gates, when opened, generate the necessary alarms when opened 50 mm (2 in).
- Confirm all gate fence circuits generate alarm with short circuit and open circuit (where possible).
- Confirm that any interface with 3rd party equipment is activated as necessary when alarms are generated.

9.4. User Interfaces:

- Check and confirm that any PC or keypad associated with the system is located in an appropriate environment and that access is available for service and maintenance purposes.
- Check and confirm that the User Interface on the front end of the system is presented in a format that is both relevant and informative.

9.5. Operator Training:

- Check and confirm that operator training has occurred and that the end user is both confident and competent in the operation of the installed system.
- Confirm understanding of arm/disarm process.
- Confirm understanding of alarm identification and processing.
- Confirm understanding of basic fault finding and product identification.
- Confirm that all personnel associated with the site have been informed of the installation of the energized fence and associated shock hazards.

10. Maintenance

10.1. Maintenance Program:

- Check that a maintenance program has been defined for the installation.
- Check that contamination has been considered.
- Check that battery replacement has been considered.
- Check that cleaning, vegetation control, and trash (detritus) removal have been considered.
- Check that emergency repairs have been catered for with spare product or service personnel call-out processes.

Perimeter Security Monitored Pulse Fencing

Certification Inspection Checklist

Inspection and certification of a Gallagher Perimeter Security Monitored Pulse Fence System is a requirement of Gallagher and is carried out to confirm compliance to the Code of Practice, and that approved installation methods and quality have been maintained.

The following needs to be completed prior to this inspection:

- The site has been commissioned by the Gallagher Certified Channel Partner.
- The end user has been trained
- Full site drawings, security details, zone drawings, etc. are available.
- System testing is complete and the System Commission Sheet and Testing Schedule document has been completed and available.

It is expected that a representative of the Gallagher Certified Channel Partner be in attendance during the inspection.

The items in this checklist directly relate to the points detailed in the Certification Inspection Criteria document.

Any points found unacceptable, or non-compliant, will be recorded on this form. This remedial work must be addressed before certification will be given.

Installation Details

Site Details:

Site Name:	
Site Address:	
Contact Personnel:	
Phone:	
Email:	

Gallagher Certified Channel Partner (Installer) Details:

Company Name:	
Company Address:	
Contact Personnel:	
Phone:	
Email:	

Inspection Attendees:

Name:		Company:	Gallagher
Name:		Company:	
Name:		Company:	
Name:		Company:	
Name:		Company:	
Name:		Company:	
Name:		Company:	
Name:		Company:	

Description of System

Security Fence (✓)		F3x (✓)	
Fence Topping (✓)		F4x (✓)	
Wall Topping (✓)		F22 (✓)	
Fence Height:		FIM (✓)	
Fence Length:			
Pulse Fence Height:		Number of Controllers:	
Fence Type:		Number of Zones:	
Other Monitoring:		Number of Cabinets:	

Inspection Checks

A = Excellent, B = Good, C = Fair

D = Failure (remedial work required)

E = Failure (major deviation from the installation standard or Code of Practice)

1. Safety

	A	B	C	D	E	Comments
1.1 Code of Practice						
1.2 Warning Signs						
1.3 Hostile Toppings						
1.4 Entrapment Points						
Notes:						

2. Fence Line Inspection

	A	B	C	D	E	Comments
2.1 Installation of Physical Barrier (host fence)						
2.2 Quality of Fence Manufacture						
2.3 Intermediate Post Fitting						
2.4 Strain Post Fitting						
2.5 Vegetation and Debris						
2.6 Level of Security						
Notes:						

3. Fence Wire and Insulation

	A	B	C	D	E	Comments
3.1 Insulators						
3.2 Fence Wire Installation						
3.3 Separation Distances						
Notes:						

4. Gates

	A	B	C	D	E	Comments
4.1 Installation of Gates						
4.2 Gate Safety and Detection						
4.3 Gate Configuration and Fence Interface						
Notes:						

5. Configuring

	A	B	C	D	E	Comments
5.1 Configuring Functionality and Appearance						
5.2 Anti-Climb Protection						
5.3 Anti-Intrusion Protection						
Notes:						

6. Controllers and Associated Equipment

	A	B	C	D	E	Comments
6.1 Controller Mounting and Protection						
6.2 Synchronization						
6.3 Auxiliary Equipment						
Notes:						

7. Earthing and Lightning Protection

	A	B	C	D	E	Comments
7.1 Earthing of Structures						
7.2 Earthing of Equipment						
7.3 Lightning Protection						
Notes:						

8. Cabling

	A	B	C	D	E	Comments
8.1 Fence Feed (Lead-out) Cables	☐	☐	☐	☐	☐	
8.2 Underground Cabling and Ducting	☐	☐	☐	☐	☐	
Notes:						

9. Commissioning

	A	B	C	D	E	Comments
9.1 System Power & Comms Established	☐	☐	☐	☐	☐	
9.2 System Performance	☐	☐	☐	☐	☐	
9.3 System Alarm Testing	☐	☐	☐	☐	☐	
9.4 User Interfaces	☐	☐	☐	☐	☐	
9.5 Operator Training	☐	☐	☐	☐	☐	
Notes:						

10. Maintenance

	A	B	C	D	E	Comments
10.1 Maintenance Program	☐	☐	☐	☐	☐	
Notes:						

Confirmation of Compliance

I, an employee of Gallagher Security, confirm that this checklist attests that this site is compliant to the Gallagher Code of Practice and the installation is of sufficient standard to be signed over to the user. Any remedial work marked on this checklist in the Notes fields has been suitable addressed and is initialled by both myself and the installer as being addressed.

Included with this form is the System Commission Sheet and Testing Schedule for this installation.

Site Name:	
Inspectors Name:	
Signature:	
Date:	

Perimeter Security Fence System

System Commission Sheet and
Testing Schedule

This document is to be used by the Gallagher Certified Channel Partner to ensure a Gallagher Perimeter Security Monitored Pulse Fence System installation is fully functional to the correct specification and design. It will also be used by the Gallagher Representative for verification of the system and certification of the installation.

The two check boxes provided for each point are to facilitate the two levels of signoff i.e. the first is for use by the Gallagher Channel Partner, the second for the Gallagher Representative. It is recommended that the inspectors put their initials in these boxes.

Site Details

Site Name:	
Site Address:	
Contact Personnel:	
Phone:	
Email:	

Gallagher Certified Channel Partner (Installer) Details

Company Name:	
Company Address:	
Contact Personnel:	
Phone:	
Email:	

Physical Checks

- The site perimeter is clear of vegetation, scrap, and other construction debris ☐ ☐
- Obstacles close to the pulse fence have been relocated ☐ ☐
- Number of fence wires: _____ ☐ ☐
- Type of fence wire used: _____ ☐ ☐

Control Equipment

- This system is configured to use the following format (tick applicable):

HV Only (Earth) ☐ HV-FIM (Earth) ☐ FIM Only (Earth) ☐

HV Only (Dual Pulse) ☐ HV-FIM (Dual Pulse) ☐ FIM Only (Dual Interleave) ☐

Low Feel (Earth) ☐ Low Feel (Dual Pulse) ☐

- Controller Serial Number Record:

	FIM	F22	F3x	F4x
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
Other:				

Method of Monitoring

Siren (internal/external) ☐
Radio ☐
Direct Line ☐
CCTV ☐

Other:

- Expected number of users:_____ ☐ ☐

Protection of Equipment

- Each controller is fitted with a dated backup battery (**mandatory**)
- Tamper devices are operational
- Controller equipment is in a secured area
- Control SET/UNSET devices are in a convenient location and functional

Fence Circuit Physical Parameters

- The table below records the Fence Circuit Physical Parameters

Fence Circuit Number	Fence Controller Number / Designation	Controller Fence Connection **(F- or F+)**	Zone Length **(m) or (ft.)**
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			

System Settings

- The table below records the Fence Controller Settings ☐ ☐

Pulse Interval (seconds):		SLOW Battery (voltage):	
SLOW Pulse Rate: (2x Pulse Interval)		Alarm Reset Time:	
Alarm Pulse Count:		Fence Warning HV (kV):	
Entry Delay:		Fence Warning LV (kV):	
Exit Delay:		Fence Alert HV (kV):	
Fence Warning Pulse Count		Fence Alert LV (kV):	
Fence Alert Pulse Count			

Lightning Protection

- Lightning Diverters installed on each controller fence connection ☐ ☐
- Lightning Diverters adjusted and confirmed ☐ ☐
- A separate lightning earth system is installed ☐ ☐
- Other additional lightning protection:_____ ☐ ☐

_____

I/O Functionality

- Keypad or remote SET/UNSET devices functionality confirmed ☐ ☐
- Input functionality confirmed ☐ ☐
- Output functionality confirmed ☐ ☐
- Network functionality stable ☐ ☐

Fence Circuit Electrical Parameters

- The table below records the Fence Circuit Electrical Parameters

Fence Circuit Number	Fence Circuit Loop Resistance (Ω) (disconnected from controller)	Peak Voltage (kV) (fence connected)	Peak Voltage (kV) (fence NOT **connected)**	Energy (J) with 500 Ω Load (FIA Required) (measured at return terminal End user optional
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

Fence Alarm Functionality

- The table below confirms fence alarm functionality
- All results indicate correct zone identification

Fence Circuit	Short Circuit: Wire to Earth	Short Circuit: Wire to Wire	Open Circuit: (isolation switch)	HV Synch Only Short Circuit: Wire to Sync Wire
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

- Operation of gate switch generates the appropriate alarms as applicable

Fence Controller Internal Voltage Tests

- The table below confirms internal voltages

Controller Number or Designation	Supply Voltage (Vac)	Battery Voltage (Vdc) (with mains connected)	Battery Voltage after 15min (no mains connected)	DC Aux OUT Current (A) (nom. Peak should not exceed rated value)	Battery Installation Date	Battery Replacement Date
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

Controller System Alarms

- The table below confirms system alarms

Controller Number or Designation	Type of Controller	AC Power Fail	Tamper	Data Connection
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

Network Controller settings

- The table below confirms system alarms

Controller Number or Designation	Type of Controller Serial No	Power Fail	Tamper	Data Fail
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Fibre Converter settings

- Point to Point Configuration
- Self-healing ring
- Configuration Mounting Plate used

Transceiver Number or Designation	Type of Transceiver	Dip Switch settings							
		1	2	3	4	5	6	7	8
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Software Information

- The table below details software information

Software Version	
License Number	
License Expiry	

Additional Documents (Attachments)

- The table below details additional documents

Document Type	File Reference
Wiring Diagrams	
Fence Configuration Diagrams	
Maintenance Program	

Perimeter Layout Diagram

- The diagram below depicts the fence layout including: Dimensions, sub-assembly types & quantity, controllers, earthing systems, zones, cable routes, conduit, underground ducting, etc.
- Attach additional documents if required

Additional Notes Relating to Installation

Testing Completion Declaration

- The user representative has been informed, trained, and equipped to use, and maintain, the Gallagher Perimeter Security Monitored Pulse Fence System in a safe and secure manner
- The necessary commissioning and inspection documents have been completed, duplicated and provided to the user
- The necessary testing has been completed on the installation and results recorded in this document

Confirmation of Testing

I/We confirm that all tests and checks detailed in this document have been undertaken in accordance with the Gallagher Code of Practice and relevant installation standards and that the system is ready for inspection by a Gallagher representative:

Print Name:	
Signature:	
Company:	
Date:	

AUDIT INSPECTION REPORT

Date: _____

☐ **The following site has been Certified**

Dealer:	Site:

Audit Date:	Controllers:	No of Controllers:

The following major defects were noted whilst inspecting the above mentioned site:

DEFECTS AGAINST STANDARDS	AS3016 Clause:	C.O.P Clause:	Closed Out:

☐ **Reinspection by a Gallagher Representative is required.**

☐ **Reinspection by a Gallagher Representative is not required. Please forward notice outlining completion of defect rectification works within 30 days of this report.**

The following minor defects were noted whilst inspecting the above mentioned site:

QUALITY OF WORKMANSHIP:	RECOMMENDATIONS:

☐ **Reinspection by a Gallagher Representative is required**