

FIBRE OPTIC INSTALLATION QUALITY PLAN PRO-FORMA

A complete set of documentation providing an easy-to-use checklist to allow the development of a Quality Plan associated with an Installation Specification

QUALITY PLAN PRO-FORMA

Quality Plan Pro-forma (QPP) has been produced in response to requests from the FIA membership for a form of checklist to aid in the development of an Quality Plan in response to an Installation Specification.

The QPP is used as a checking mechanism to ensure that the Installation Specification contains all the appropriate information and also that the response from the Installar in line with the requirements of the Installation Specification.

The QPP divides the Quality Plan into twelve areas:

General: SITE INFORMATION
Section 0: SYSTEM DESIGN
Section 1: PATHWAY ANALYSIS

Section 2: CIVILS

Section 3: PATHWAY FIXTURES

Section 4: HEALTH, SAFETY, REGULATIONS AND LEGISLATION

Section 5: OPTICAL CABLE SPECIFICATION
Section 6: OPTICAL FIBRE SPECIFICATION
Section 7: INSTALLATION REQUIREMENTS
Section 8: CLOSURES AND TERMINATION
Section 9: TEST SCHEDULE (Stages 1 and 2)

Section 10: DOCUMENTATION

Section 11: PROGRAMME DEFINITION

The QPP contains eight sheets or templates which relate to these sections and can used as required. The use of these sheets, as with all other associated FIA publications, is intended to assist in the development of smooth running and well specified projects. Their use is in no way mandatory.

SITE INFORMATION

One of these templates may be used per project.

OTHER SHEETS

All of the remaining sheets have the same format. This format allows the Installer to accept the requirements of the Installation Specification to be accepted as they stand (ACCEPT column), seek further information (QUERY column), specify any action required on behalf of the user, installer or a third party (ACTION column) or just to make notes (COMMENTS column).

Quality Plan: Site Information

Contract Details	
Site Name	
Site Address	
Site Contact: Name	
Site Contact: Phone/Fax	
Installer Name	
Installer Bid Contact	
	<u></u>
Tender / Scone Details	

Quotation Reference	
Order Reference	
Contract File	
Contract Reference	
Delivery Site	
Delivery Address	

Tender / Scope Details	
Tender Date	
Adjudication Date	
Commence Date	
Completion Date	

Installation Grade	
Testing Grade	

IEE Model Form 1	
JTC 80	
Specific Terms and Conditions	
Indemnities	
Insurance's	
Defects liability	
Financing Required	
Liabilities	

Design Information	
Topology	
Nodal Positions	
Nodal Access	
Expansion	
Resilience	

Operational Lifetime	
Applications Supported	
Maintenance Policy	

Quality Plan Section 0: System Design

	Accept	Query	Action	Comments
Topology				
Optical Loss Budgets				
Application Support				
Hazards				
Programme				
Resource Allocation				
Scope of Works				
Terms and Conditions				

Quality Plan

Section 1: Pathway Analysis

	Accept	Query	Action	Comments
Nodal Locations				
Pre-installed Pathways				
Pathway Hazards				
Pathway Environments				
Pathway Availability against Programme				
Safety Measures				
Site Training and Procedures in Operation				

Quality Plan Section 2: Civils

	Accept	Query	Action	Comments
Correct Design				
Components				
Size				
Finish				
Complete				
Made Good with Reinstatement				
Seals & Barriers Reinstated				
Available and Accessible for Cabling				
Guarding / Warning, Health & Safety Compliance				

Quality Plan Section 3: Pathway Fixtures

	Accept	Query	Action	Comments
Correct Design				
Components				
Size				
Finish				
Complete				
Earthing and Bonding				
Available and Accessible for Cabling				
Security, Protection & Administration as specified				

Quality Plan

Section 4: Health, Safety, Regulations and Legislation

	Accept	Query	Action	Comments
Hazards				
Compliance with H&S				
Control of Hazardous Substances				
Use of Gas Detection Equipment				
Guarding & Signing				
Notification to Affected Parties				
Reinstatement in Accordance with Regulations				

Quality Plan

Sections 5 and 6: Optical Cable and Optical Fibre Specification

	Accept	Query	Action	Comments
Design				
-				
Physical Specification				
Performance Specification				
OTDR Tests				
Type, No./AQL%				
Documentation				
Compatibility				
Installation Technique				
Operational Environment				
Storage and Material Handling				
Component Compatibility				
Certificates of Conformance				
Storage				

Quality Plan

Section 7: Installation Requirements

	Accept	Query	Action	Comments
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Locations				
Drums				
Pulling				
Fleeting				
Installation Techniques				
Installation Equipment				
Installation Plant				
H&S, Guarding & Warnings				
Reinstatement of Pathways				
Reinstatement of Seals and Barriers				
Earthing and Bonding				
Service Loop Lengths				
Administration/Labelling				
Sheath Gaps (where appropriate)				

Quality Plan Section 8: Closures and Termination

	Accept	Query	Action	Comments
Location of Closures				
Layout of Closures				
Cables/Closures Allocation				
Cable Dressing				
Cable Administration/Labelling				
Closure Design				
Components				
Size				
Finish				
Compatibility				
Environment				
Security				
Termination/Splicing Component				
Design				
Physical				
Performance Tests and Criteria				
Type, No./AQL%				
Documentation				
Component Compatibility				
Termination/Splicing Procedures				
Optical Fibre/Optical Port Allocation				
Optical Fibre Management				
Labelling				
Optical Fibres				
Optical Ports				
Optical Safety				
Reinstatement of Seals				
Earthing and Bonding				

Quality Plan Section 9: Test Schedule

	Accept	Query	Action	Comments
Free Issue Materials				
Component Compatibility				
Stage 1: Unterminated Cabling (Installed)				
Performance OTDR Tests				
Type, No./AQL%				
Documentation				
Acceptance Criteria				
Remedial Action Procedures				
Result Documentation				
Stage 2: Terminated Cabling				
OTDR Tests				
Type, No./AQL% Documentation				
Power Meter Measurements				
Wavelength Correction				
Wavelength,				
Test Type A, B or C				
Single Direction				
Both Directions				
No./AQL%				
Acceptance Criteria				
Remedial Action Procedures				
Result Documentation				

Quality Plan

Section 10: Programme Definition

	Accept	Query	Action	Comments
Daily Log				
Change Control System				
Variation Control System				
Notification System				
Interim Certificates supported with test				
& acceptance documentation				
Hand Over Certificates				

Quality Plan

Section 11: Documentation

	Accept	Query	Action	Comments
Existing Cabling Documentation				
(for modification)				
Installation Specification				
Free-issue Material Compliance				
Documentation				
Certificates of Compliance				
Test Schedule Results				
As-built documents				
Certificates and Warranty				
System Administration/Labelling				