

MARS
C.T.A
ACCEPTANCE
AND RELEASE PROCEDURE

Approval	1				
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APPENDIX 1 –CTA Test and acceptance documents

CHANGE HISTORY

Issue1 Creation of the document

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1 PURPOSE

This document defines the process for acceptance and release of CTA assembly at the Calais cable factory for the **MARS** Project.

2 RELATED DOCUMENTS

Contract
Quality plan – Calais module
CTA Engineering Test Specification (CETS)

3 DEFINITIONS

CTA Acceptance Report (CAR):

Report used for the acceptance and release of a segment part or a cable section and which includes test data in accordance with the Cable Engineering Technical Specification.

CTA Engineering Test Specification (CETS):

The cable specification including the requirements of the optical and electrical features and of the SLD; used as the reference document for the acceptance of the segment part or a cable section.

4 ACCEPTANCE PROCEDURE

4.1 CTA Inspection and Test

In accordance with the terms of the contract, the Purchaser shall be allowed free access to witness the performance of any test and inspection activities.

This testing is to be carried out by ASN with the Purchaser in attendance.

All test results are to be made available to the Purchaser. Final Acceptance will be based on conformity of complete testing of the assembled cable and repeaters before loading. A Final Acceptance and Release Certificate will be issued at this stage by the Calais QC Department covering all sections along with the associated test results.

Any discrepancy from the contract specifications: will be presented through an external concession to the Purchaser's representative for acceptance.

4.2 System Assembly Acceptance Procedure

The CTA test reports will be available to the Purchaser for information but these individual reports will not be approved by the Purchaser. An electronic copy of the Factory Release Certificate, any external concessions, and the CAR, signed off by an ASN representative, will be available to the Purchaser.

After assembly and final test, The CTA Acceptance Report and the Factory Release Certificate will be submitted for Customer approval.

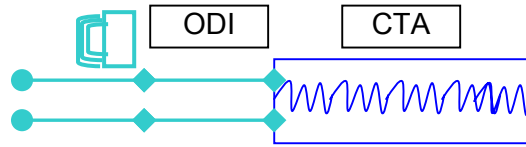
An electronic copy will be also supplied, on CD to the purchaser.

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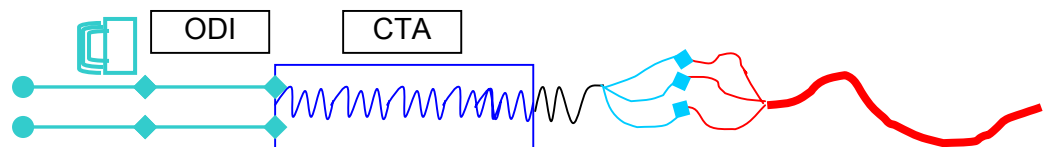
4.3 Flow chart test

Stage 1: Incoming test



Incoming Test (Optical Attenuation and electrical resistance) will be performed on the pre assembled CTA following the procedure from Greenwich

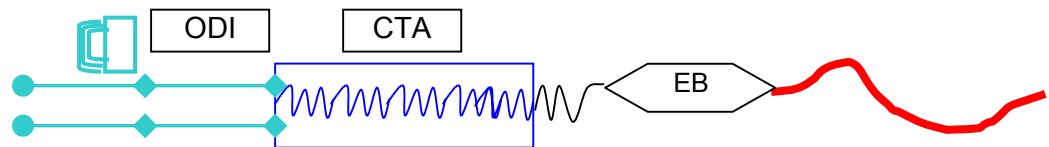
Stage 2: Test after splice before moulding



Optical test will be performed on the pre assembled CTA after splice with the cable tail following the internal procedure :

- Insert loss at 1550nm

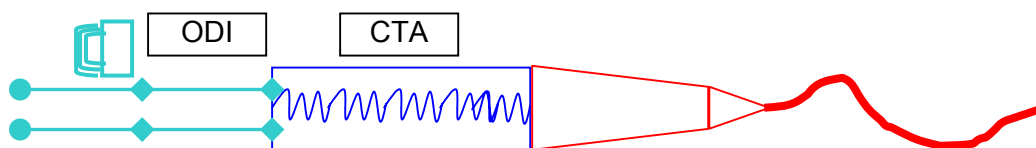
Stage 3: Test after moulding



Electrical test:

- HV test on the moulded box 45KV / 5 mn

Stage 4: Test after closure (FAT)



Optical and electrical test will be performed on the pre assembled CTA after closure of the extremity Box the cable tail following the procedure :

Optical test:

- Insert loss at 1550nm

Electrical test:

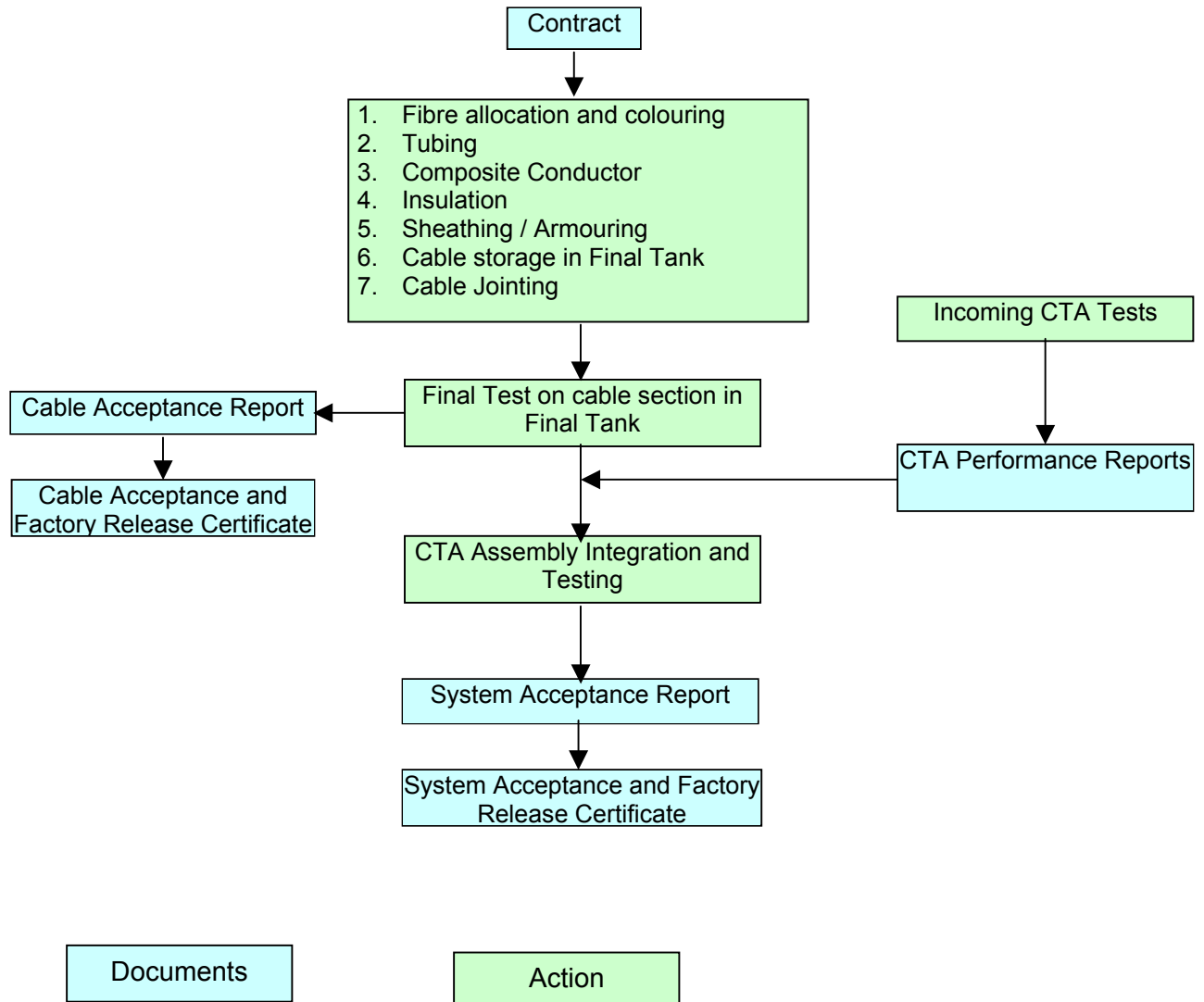
- Electrical resistance of the complete CTA

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Appendix 1

CTA Acceptance and Test documents



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