



**Verizon NEBS™ Compliance: Periodic
Requalification of FOC Products**
Verizon Technical Purchasing Requirements
VZ.TPR.9416
Issue 1, March 2007





CHANGE CONTROL RECORD:

Version	Date	Action*	Reason for Revision
1	3/30/2007	Reissue	Document reissued and updated into new format.
* New, Add, Delete, Change, Reissue			



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1.0 PURPOSE

The purpose of this Verizon Technical Purchasing Requirement document is to provide guidelines for the requalification of FOC products.

2.0 SCOPE

FOC Products

3.0 REFERENCES

PFOC Memo #16 Rev # 1	Periodic Requalification of PFOC Products; Product Change Notices (PCN) Test Requirements; PFOC Factory Moves Test Requirements.
GR-357-CORE	Generic Requirements for Assuring the Reliability of Components Used in Telecommunications Equipment
GR-1221-CORE	Generic Reliability Assurance Requirements for Passive Optical Components

4.0 ACRONYMS

FOC	Fiber Optic Components
GR	Generic Requirement
ITL	Independent Testing Laboratory
PCN	Product Change Notices

5.0 GUIDELINES FOR THE REQUALIFICATION OF FOC PRODUCTS

Background/Rationale: In addition to the initial qualification testing, or FOC Program testing on a Generic Requirement (GR) basis, products should be retested periodically to ensure that the device design and manufacturing processes have not drifted unacceptably over time. Such efforts are typically referred to as "product requalification" or "qualification maintenance". The purpose of requalification is to capture the small



changes that occur daily such as new operators on factory equipment, new operators performing hand assembly functions, upgraded factory equipment, process changes, material changes, factory management changes, etc. over time, to verify that the device still meets the original requirements. GR-357 Assuring the Reliability of Components Used in Telecommunications Equipment provides guidelines and recommends the requalification period to be within three years. GR-1221, Reliability Assurance Requirements for Passive Optical Components refers specifically to requalification of passive fiber optic components, recommending that requalification be initiated within two years after the completion of the previous test program. Verizon will accept compliance with the newer industry standard, TL-9000 as the requirement that will ensure products are periodically retested to assess the product's ability to continue to meet design requirements.

Supplier Requirements: Verizon's RFPs and Contracts include as a condition that the supplier must be registered and compliant with TL-9000, "Quality Excellence for Suppliers of Telecommunications" (QuEST) which are delineated in "Quality Management System Requirements Handbook" and "Quality Management System Measurements Handbook" current releases. Verizon is a member of the QuEST Forum and held the Chairman's position as a founding member. Compliance with TL-9000 with specific customized emphasis on Quality Management System Requirements Handbook, Chapter 8 - "Measurement, Analysis, and Improvement" will meet the requirement of ensuring products do not drift from specifications, reliability, and quality over time. Proof of this compliance will be the submission of a copy of the TL-9000 audit reports performed by the TL-9000 registered auditor to SIT. This is a requirement at each factory final assembly location. Also, the location must maintain TL-9000 registration with no lapses. Only TL-9000 Registered Auditors and the Factory are involved with this process, FOC ITLs are not participants.