



Verizon NEBS™ Compliance: TPR Master Document List

Verizon Technical Purchasing Requirements

VZ.TPR.9103

Issue 14, December 2011





CHANGE CONTROL RECORD:

| Version | Date | Action* | Reason for Revision |
|-------------------------------------|-------------|----------------|---|
| 1 | 5/9/2007 | New | New document. |
| 2 | 5/11/2007 | Add | VZ.TPR.9447 added to document list |
| 3 | 5/23/2007 | Add | VZ.TPR.9504 added to document list |
| 4 | 6/8/07 | Add | VZ.TPR.9434 and VZ.TPR.9448 added to document list |
| 5 | 8/20/2007 | Add | VZ.TPR.9304, VZ.TPR.9411, VZ.TPR.9421, VZ.TPR.9426, VZ.TPR.9428, VZ.TPR.9435, VZ.TPR.9440, VZ.TPR.9444, VZ.TPR.9445, VZ.TPR.9450, VZ.TPR.9451 and VZ.TPR.9505 |
| 6 | 8/22/2007 | Add | VZ.TPR.9403, VZ.TPR.9405, VZ.TPR.9408, VZ.TPR.9420, VZ.TPR.9427 and VZ.TPR.9442 |
| 7 | 10/15/2007 | Add | VZ.TPR.9409, VZ.TPR.9413, VZ.TPR.9417, VZ.TPR.9419, VZ.TPR.9429, VZ.TPR.9436, VZ.TPR.9437, VZ.TPR.9601 and VZ.TPR.9701 |
| 8 | 11/26/2007 | Add | VZ.TPR.9204, VZ.TPR.9407, VZ.TPR.9418, VZ.TPR.9430, VZ.TPR.9431 and VZ.TPR.9432 |
| 9 | 3/19/2008 | Add | VZ.TPR.9305, VZ.TPR.9439 and VZ.TPR.9506 |
| 10 | 4/25/2008 | Add | VZ.TPR.9424 and VZ.TPR.9425 |
| 11 | 11/18/2008 | Add | VZ.TPR.9205, VZ.TPR.9433, VZ.TPR.9438, VZ.TPR.9443, VZ.TPR.9446, VZ.TPR.9452, VZ.TPR.9453, VZ.TPR.9454 and VZ.TPR.9802 |
| 12 | 1/26/2009 | Add | VZ.TPR.9206, VZ.TPR.9207, VZ.TPR.9306, VZ.TPR.9307, VZ.TPR.9455, VZ.TPR.9702 and VZ.TPR.9703 |
| 13 | 1/13/10 | Add | VZ.TPR.9208, VZ.TPR.9209, VZ.TPR.9307, VZ.TPR.9456, VZ.TPR.9507 and VZ.TPR.9704 |
| 14 | 12/10/2011 | Add | VZ.TPR.9210, VZ.TPR.9211, VZ.TPR.9212, VZ.TPR.9457, VZ.TPR.9458, VZ.TPR.9459, VZ.TPR.9460, VZ.TPR.9461, VZ.TPR.9462, VZ.TPR.9508, VZ.TPR.9509, VZ.TPR.9602, VZ.TPR.9803 |
| * New, Add, Delete, Change, Reissue | | | |

Trademark Acknowledgement – NEBS is a trademark of Telcordia Technologies, Inc.



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1.0 PURPOSE

The purpose of this Verizon Technical Purchasing Requirement document is to provide the Master List of all documents within Verizon's Technical Purchasing Requirements database.

2.0 SCOPE

This document is intended to provide the document identifier, title, latest version and issue date for all active Verizon Technical Purchasing Requirements.

3.0 REFERENCES

| | |
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| None | |
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4.0 ACRONYMS

| | |
|----------------|--|
| BBU | Battery Back-up Unit |
| CPE | Customer Premises Equipment |
| FDH | Fiber Distribution Hub |
| FOC | Fiber Optic Component |
| FTTP | Fiber to the Premises |
| HFOC | Hardened Fiber Optic Connector |
| HMFOC | Hardened Multi-Fiber Optic Connector |
| ITL | Independent Test Laboratory |
| JI-ONT | Just Inside Optical Network Terminal |
| MDU-ONT | Multi-Dwelling Unit Optical Network Terminal |
| NEBS | Network Equipment Building Systems |
| ONT | Optical Network Terminal |
| OPSU | ONT Power Supply Unit |
| OTDR | Optical Time Domain Reflectometer |
| RFP | Request for Proposal |
| SHE | Super Head End |
| SFU-ONT | Single Family Unit Optical Network Terminal |
| TPR | Technical Purchasing Requirement |
| VHO | Video Hub Office |



5.0 VZ.TPR MASTER LIST

| Document Identifier | Document Title | Version | Issue Date |
|---------------------------|--|---------|---------------|
| VZ.TPR.9100 Series | Quality Documents | | |
| VZ.TPR.9102 | Analysis Process of Critical Equipment Failure | 2 | June 2007 |
| VZ.TPR.9103 | TPR Master Document List | 14 | December 2011 |
| VZ.TPR.9200 Series | Policy Documents | | |
| VZ.TPR.9201 | NEBS Validation Process | 1 | February 2007 |
| VZ.TPR.9202 | Technical Purchasing Requirements Creation | 1 | February 2007 |
| VZ.TPR.9203 | NEBS Requirements by Location | 5 | May 2011 |
| VZ.TPR.9204 | Labeling Requirements for Light Emitting Equipment | 1 | October 2007 |
| VZ.TPR.9205 | Energy Efficiency Requirements for Telecommunications Equipment | 5 | October 2011 |
| VZ.TPR.9206 | Invoicing and Collection Process for SIT (Internal Use Only) | 4 | February 2011 |
| VZ.TPR.9207 | TEEER Metric Quantification | 1 | January 2009 |
| VZ.TPR.9208 | Thermal Management Requirements for Improved Energy Efficiency of Telecommunications Equipment | | Obsolete |
| VZ.TPR.9209 | Standard RFP and Contract Language for NEBS and FOC Requirements | 2 | May 2010 |
| VZ.TPR.9210 | Budget Planning and Purchasing Process for CNT (Internal Use Only) | 1 | February 2010 |
| VZ.TPR.9211 | Vendor Power and Grounding Questionnaire | 2 | February 2010 |
| VZ.TPR.9212 | Expense Budget Tracking for SIT | 1 | May 2010 |
| VZ.TPR.9300 Series | NEBS Documents | | |
| VZ.TPR.9301 | SFU-ONT and MDU-ONT Design Guidelines and Testing Requirements | 4 | May 2009 |
| VZ.TPR.9302 | NEBS Regression Testing of Separately Approved ONTs and ONT Power Supplies | 4 | March 2011 |
| VZ.TPR.9303 | Test and Measurement Equipment NEBS Requirements | 1 | March 2007 |
| VZ.TPR.9304 | Wind Driven Rain Calibration | 1 | August 2007 |
| VZ.TPR.9305 | NEBS Compliance Clarification Document | 4 | May 2011 |
| VZ.TPR.9306 | NEBS Requirements for Physical Design and Manufacture of Telecommunications Products and | 1 | November 2008 |



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|---------------------------|--|---|---------------|
| | Equipment | | |
| VZ.TPR.9307 | Qualification Requirements for Printed Board Assemblies Manufactured with Lead-Free Solder for use in Telecommunications Equipment | 4 | August 2010 |
| VZ.TPR.9400 Series | FOC Documents | | |
| VZ.TPR.9401 | Checklist for Initial FOC ITL and Supplier Lab Audit | 1 | March 2007 |
| VZ.TPR.9402 | Checklist for Follow-up FOC ITL and Supplier Lab Audit | 1 | March 2007 |
| VZ.TPR.9403 | Single Mode Optical Fusion Splices and Splicing Systems | 3 | October 2009 |
| VZ.TPR.9404 | FOC Factory Move Test Requirements | 4 | April 2010 |
| VZ.TPR.9405 | Generic Reliability Assurance Requirements for Passive Optical Components | 5 | August 2011 |
| VZ.TPR.9406 | Guidelines and Considerations Used by FOC Team for the Red Flag Risk Assessment Program | 1 | July 2007 |
| VZ.TPR.9407 | Freeze/Thaw Test Setup and Procedure | 1 | October 2007 |
| VZ.TPR.9408 | Generic Requirements for Optical Fiber Ribbon Fanouts | 1 | August 2007 |
| VZ.TPR.9409 | Singlemode Optical Connectors and Jumper Assemblies | 5 | March 2011 |
| VZ.TPR.9410 | Monthly FOC Performance Summary Reporting and Tracking Guidelines | 1 | February 2008 |
| VZ.TPR.9411 | FTTP Wall Plates, Moldings & Raceways | 1 | August 2007 |
| VZ.TPR.9412 | Generic Requirements for Fiber Optic Splice Closures and Terminals | 5 | December 2009 |
| VZ.TPR.9413 | Test Equipment Repeatability and Accuracy Validation Procedure | 2 | April 2008 |
| VZ.TPR.9414 | Red Flag Test Program for Single Fiber Single Mode Connectors | 1 | December 2007 |
| VZ.TPR.9415 | Declaration of Readiness by FOC ITL to Proceed with an Audit | 2 | January 2010 |
| VZ.TPR.9416 | Periodic Requalification of FOC Products | 1 | March 2007 |
| VZ.TPR.9417 | Generic Requirements for Outdoor Fiber Distribution Hubs (FDH's) | 4 | April 2008 |
| VZ.TPR.9418 | Hardened Fiber Optic Connectors (HFOC) | 6 | May 2011 |
| VZ.TPR.9419 | Factory Installed Termination System (FITS) | 6 | June 2010 |
| VZ.TPR.9420 | Generic Requirements for Indoor Fiber Distribution Hubs (FDH's) | 5 | August 2008 |



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|-------------|--|---|----------------|
| VZ.TPR.9421 | Non-Concrete Splice Enclosures (Handholes) | 1 | July 2007 |
| VZ.TPR.9422 | Red Flag Test Program for Multi Fiber Single Mode Connectors | 1 | December 2007 |
| VZ.TPR.9423 | Screening Requirements for Optical Components | 1 | December 2007 |
| VZ.TPR.9424 | Test Requirements for MDU Drop Cables | 3 | February 2011 |
| VZ.TPR.9425 | Red Flag Program Test Requirements for MDU Drop Cables (For Internal Use Only) | 1 | April 2008 |
| VZ.TPR.9426 | General Guidelines for FOC Testing and Reporting | 7 | May 2010 |
| VZ.TPR.9427 | Generic Requirements for Passive Optical Components | 5 | August 2011 |
| VZ.TPR.9428 | Pedestal Terminal Closures | 1 | July 2007 |
| VZ.TPR.9429 | Generic Requirements for Below-Grade Fiber Distribution Hubs (FDH's) | 2 | April 2008 |
| VZ.TPR.9430 | Optical Fiber and Optical Fiber Cable | 4 | April 2010 |
| VZ.TPR.9431 | Multi-Fiber Optical Connectors | 2 | February 2009 |
| VZ.TPR.9432 | Hardened Multi-Fiber Optical Connectors (HMFOC) | 4 | April 2010 |
| VZ.TPR.9433 | Test Requirements for Bifurcation Tubes | 1 | August 2008 |
| VZ.TPR.9434 | 12 and 24 Port Transmit Receive Units | 1 | June 2007 |
| VZ.TPR.9435 | Policy, Requirements and Procedures Related to Moving Fiber Optic Test Equipment From One Lab to Another for the Purpose of Testing at a Different Location on a Temporary Basis | 1 | August 2007 |
| VZ.TPR.9436 | Single Fiber, Single-Mode Mechanical Splices and Splicing Systems | 3 | October 2009 |
| VZ.TPR.9437 | Premises Fiber Optic Cable | 2 | April 2008 |
| VZ.TPR.9438 | Test Requirements for Fiber Closure Brackets | 2 | November 2008 |
| VZ.TPR.9439 | Fiber-Drop Splice Closures | 1 | December 2007 |
| VZ.TPR.9440 | FOC Passive Demarcation Point | 1 | August 2007 |
| VZ.TPR.9441 | Test Requirements for Improved Bend Performance Fibers | 3 | February 2011 |
| VZ.TPR.9442 | Optical Cable Microducts and Accessories | 3 | September 2011 |
| ZV.TPR.9443 | Test Requirements for Side Mount Brackets for FDH | 1 | August 2008 |
| VZ.TPR.9444 | Sample Size for Multiple Connector Types Manufactured at Multiple Locations | 1 | August 2007 |
| VZ.TPR.9445 | Factory Audit Requirements | 2 | March 2008 |



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|---------------------------|---|---|----------------|
| VZ.TPR.9446 | Craft Interaction & Connector Installation and Removal Procedure | 1 | August 2008 |
| VZ.TPR.9447 | Field Spliceable Optical Connectors | 4 | April 2010 |
| VZ.TPR.9448 | Launch Fiber Reel for OTDR | 1 | June 2007 |
| VZ.TPR.9449 | Field Use Optical Connector Polishing Machine | 1 | August 2007 |
| VZ.TPR.9450 | Universal Test Sets (UTS) | 1 | August 2007 |
| VZ.TPR.9451 | FOC Test Plan and Test Report Template | 1 | July 2007 |
| VZ.TPR.9452 | FOC Validation Process | 1 | September 2008 |
| VZ.TPR.9453 | Quality Audit Process | 1 | November 2008 |
| VZ.TPR.9454 | FOC Audit Process | 1 | November 2008 |
| VZ.TPR.9455 | Declaration of Readiness of FOC ITL for Factory Audit | 2 | May 2009 |
| VZ.TPR.9456 | GR to TPR Cross-Reference | 1 | February 2009 |
| VZ.TPR.9457 | MDU Fiber "G.657-B.3" Coating Test Requirement | 1 | November 2010 |
| VZ.TPR.9458 | Endface Geometry Test Equipment Repeatability and Accuracy Validation Procedure | 1 | April 2010 |
| VZ.TPR.9459 | Verizon NEBS™ Compliance: Test Requirements for Buffered/Protected Optical Fiber with Adhesive Assemblies for Residential Use | 2 | May 2011 |
| VZ.TPR.9460 | Test Requirements for Multi-Mode Fiber | 1 | June 2011 |
| VZ.TPR.9461 | Test Requirements for Multi-Mode Fiber Optic Connectors | 1 | June 2011 |
| VZ.TPR.9462 | Requirements for Blown Optical Fiber, Optical Fiber Cables and Fiber Units | 1 | September 2011 |
| VZ.TPR.9500 Series | CPE Documents | | |
| VZ.TPR.9501 | NEBS Requirements for Customer Premises Equipment (CPE) Device | 6 | October 2007 |
| VZ.TPR.9502 | OPSU and BBU NEBS Testing Requirements | 6 | August 2007 |
| VZ.TPR.9503 | SFU ONT Backup Battery Reserve Time Test Plan | 1 | May 2007 |
| VZ.TPR.9504 | JI-ONT NEBS Testing Requirements | 1 | May 2007 |
| VZ.TPR.9505 | NEBS CPE Compliance Checklist | 2 | October 2007 |
| VZ.TPR.9506 | MDU ONT Backup Battery Reserve Time Test Plan | 1 | February 2008 |
| VZ.TPR.9507 | NEBS Requirements for MDU Indoor ONT | 3 | March 2009 |
| VZ.TPR.9508 | FiOS Battery NEBS Testing | 1 | June 2011 |
| VZ.TPR.9509 | Outdoor FMPS Testing Requirements | 1 | July 2011 |



| VZ.TPR.9600 Series | ITL Documents | | |
|---------------------------|---|---|---------------|
| VZ.TPR.9601 | Heat Release Calculation and Mitigation Planning | 3 | November 2010 |
| VZ.TPR.9602 | Checklist for TMST ITL and Supplier Lab Audit | 1 | January 2010 |
| VZ.TPR.9700 Series | Data Centers/VHO/SHE Documents | | |
| VZ.TPR.9701 | Physical Construction Requirements for Video Hub Offices Located Inside Central Offices | 2 | October 2007 |
| VZ.TPR.9702 | NEBS Requirements for SHE/VHO Equipment | 2 | February 2009 |
| VZ.TPR.9703 | Data Center Equipment NEBS Requirements | 1 | December 2008 |
| VZ.TPR.9704 | SHE/VHO Risk Assessment | 1 | February 2009 |
| VZ.TPR.9800 Series | Product Specific Documents | | |
| VZ.TPR.9801 | Fuel Cell Systems NEBS Testing Requirements | 2 | November 2011 |
| VZ.TPR.9802 | Valve Regulated Lead Acid (VRLA) Battery Qualification Test Requirements | 1 | June 2008 |
| VZ.TPR.9803 | Qualification Requirements for the Cease Fire CFF 800 Fire Suppression System for use in Verizon Central Office Equipment Space | 1 | February 2011 |