

EXHIBIT B

ACCEPTANCE TESTING PROCEDURES AND SPECIFICATIONS

Initially, Optical Time Domain Reflectometer ("OTDR") tests will be provided. The second stage begins as soon as fiber connectivity has been achieved to intermediate or endpoint Regeneration/POP Facilities. Grantor shall verify and record the continuity of all fibers and perform and record power level readings, as well as loss readings on all fibers in both directions.

1. STANDARDS

- 1.1 Fibers shall comply with current industry standards, including TIA/EIA 568-B.3 standard.
- 1.2 Grantor will ensure that fiber reflectance value for splices and fiber connectors is -40dB or better

2. PHASE TWO TESTING

End-to-end testing shall be done after Grantor has completed and provided end-to-end connectivity and on all fiber strands of the fiber optic cable between adjacent equipment shelters/POPs.

- 2.1 When connectorized fiber optic pigtails are spliced into the fiber optic cable at an intermediate or end shelter, the pigtail splice and connector qualification tests shall be performed and the results recorded for that site as identified in **Section 1** of this Exhibit.
- 2.2 Continuity tests shall be done according to industry standards to verify that no fibers have been "frogged" or crossed in any of the splice points.
- 2.3 The power loss measurements shall be made at 1310 and 1550 nm on each fiber strand. Power loss measurements should be conducted using an industry-accepted laser source and a power meter. Results are to be entered into the "Power Meter Testing Results" form set forth in **Attachment B-1**.
- 2.4 OTDR traces shall be taken in both directions 1550 nm and splice loss measurements recorded on the form found at the end of this Exhibit. Grantor will store OTDR traces on diskette and on data sheets. Copies of all data sheets and tables, and one set of diskettes with all traces will be available to CUSTOMER within thirty (30) days of splicing completion on a per span basis.

3. SPLICING STANDARDS

All splices shall be fusion splices except for endpoints where pigtail connectors may be used. No mechanical splices shall be allowed, except as permitted in **Exhibit C**.

- 3.1 The test requirements for initial uni-directional testing are as follows:

- 3.1.1 The loss value of the pigtail connector and its associated splice shall not exceed 0.50 dB. This value does not include the insertion loss from its connection to the FDP. For values greater than this, the splice will be broken and respliced until an acceptable loss value is achieved. If, after three attempts Grantor is not able to produce a loss value less than 0.50 dB, the splice will be marked as Out-of-Spec ("OOS") on the data sheet. Each splicing attempt shall be documented on the data sheet.
 - 3.1.2 During installation, the objective for each splice is a loss of 0.15 dB or less. If, after three attempts, Grantor is not able to produce a loss value of less than 0.15 dB, then 0.25 dB will be acceptable. If, after two additional attempts, a value of less than 0.25 dB is not achievable, then the splice will be marked as OOS on the data sheet. Each splicing attempt shall be documented on the data sheet.
 - 3.1.3 Final acceptance of a fiber optic splice shall be made based on bi-directional OTDR test data. Often this data is not available until after the construction has been completed. To serve as a gauge for satisfactory performance during the construction phase, a value equal to or less than 0.15 dB of loss/attenuation shall be deemed as satisfactory during the initial testing phase.
- 3.2 The test requirements for bi-directional end-to-end testing (a span shall be tested from CUSTOMER FDP to FDP).
- 3.2.1 The objective for each splice is a bi-directional average loss of 0.10 dB or less. If following bi-directional OTDR testing, the loss/attenuation readings prove to be unacceptable, then 12 inches of fiber on each side of the splice shall be cut back and the fiber shall be respliced and tested according to the procedures outlined in **Section 2.1.2**.
 - 3.2.2 The typical budget for each fiber span shall be calculated using the following assumptions: average bi-directional loss of 0.15 dB or less for each splice, average bi-directional loss of 0.50 dB or less per pigtail connector and its associated splice plus 0.

