

**NEVADA BELL TELEPHONE COMPANY**  
**DESCRIPTION AND JUSTIFICATION**  
**October 18, 2007**  
**TRANSMITTAL NO. 171**

**PURPOSE**

With this filing, Nevada Bell Telephone Company (NBTC) is proposing to introduce Arc Sub Ring nodes, a new enhancement to the existing Sub Ring node feature on Dedicated SONET Ring Service (DSRS), at the speeds of OC-3, OC-12, OC-48 and OC-192. The Sub Ring node feature is also being introduced at the OC-192 speed. None of the revisions included in this filing will adversely affect existing customers.

**DESCRIPTION**

An Arc Sub Ring node is a lower speed optical extension off a main ring. It traverses one or more main ring nodes via the use of OC-N port connections on and off the main ring. The primary use of Arc Sub Ring nodes is to add another location to the ring that will utilize minimal amounts of bandwidth from the main ring. When designing or adding locations to a ring, there are now multiple options to more effectively and efficiently utilize the bandwidth of a ring. When single or multiple locations have minimal bandwidth requirements, an Arc or Sub Ring can maintain the ring benefits at a lower cost. Arcs connect via ports on the main ring and do not require any bandwidth on the main ring until each service is provisioned. Subtending Sub Rings are the same as Arcs but require bandwidth on the main ring. The Arc provides ring protection and benefits at minimal costs. The old Sub Ring requires a sub ring node wherever services need to be dropped. The old sub ring has a second lower level node next to the main ring node. This is expensive. The Arc utilizes the main ring and nodes to reach locations. No nodes are required at the main node locations. Arc connects via two optical ports at a lower cost. There is one limitation: it cannot drop at the connecting main node. The Subtending Sub Ring is the same as the Arc except for two items: 1) needs fiber to close the ring; and 2) can drop at connecting main nodes. Both Arcs and Subtending Sub Rings require Next Generation SONET platforms.

This initiative introduces more options for the customer to connect locations under the Dedicated Ring service. Both benefits of better bandwidth efficiency and cost savings are included.

No changes in the billing are necessary since the Sub Ring feature exists today, and the existing USOCs and rates are being utilized for the Arc and Subtending Sub Ring.

### **PRICE CAP COMPLIANCE**

With this filing, NBTC is introducing the new enhancement, Arc Sub Ring nodes, to the existing Sub Ring node feature on Dedicated SONET Ring Service (DSRS), at the speeds of OC-3, OC-12, OC-48 and OC-192. Additionally, the Sub Ring node feature is being introduced at the OC-192 speed. No supporting documentation is required for a new service filing, as discussed in Section 61.49 of the *Code of Federal Regulations*.