

FCC FORM 481 (July 2017), Line 610
Descriptive Document for Functionality in Emergency Situations
Per Instructions for Completing FCC Form 481

At line 600 of FCC Form 481, Western Wahkiakum County Telephone Company (the "Company") certified that it is able to function in emergency situations as set forth in 47 C.F.R. 54.202(a)(2). This means that the Company has a reasonable amount of backup power to ensure functionality without an external source, is able to reroute traffic around damaged facilities, and is capable of managing traffic spikes resulting from emergency situations. This statement describes how the Company is prepared to provide continued service in an emergency situation and applies with respect to both the Company's voice telephone service and the Company's broadband service.

The Company's network providing voice telephone and broadband service includes two (2) central offices and twenty-two (22) digital loop carrier sites ("DLCs"). The two central offices are equipped with back-up batteries having a capacity to provide reserve power in the event of a power outage for up to approximately eight (8) days, while the DLCs are equipped with batteries having a capacity to provide reserve power in the event of a power outage for up to approximately two (2) days. The Company also maintains fixed back-up power generators at its two central office locations and at the locations of three (3) of its more significant DLCs. There are automatic power transfer switches at each of those five locations, so in the event of a commercial power failure, the transfer to back-up power should occur seamlessly. The Company also maintains three (3) portable generators to be transported to the remaining locations, if needed. All locations are subject to status alarm monitoring that is connected to the Company's principal central office.

The Company has three (3) fiber cable rings that provide redundancy and diversity connecting the Company's principal switching facilities with one another and connecting a number of the remote DLC locations with their serving switching facility. The Company's broadband service also utilizes these fiber cable rings for transmission and benefits from the redundancy and diversity they provide.

Each of the Company's fiber-connected sites has built in redundancy for fiber transceivers. Most of the Company's switching and other electronic/optronic equipment utilized in providing telephone service and broadband service has some redundancy built in, and the Company keeps critical-spares replacement components on hand. The Company also subscribes to support service from the principal vendors of its switching and transmission equipment.

The Company has system redundancy for interexchange access service circuits (including as utilized by its affiliate to provide long distance service), E-911 trunking and SS7 signaling circuits.

Most of the Company's outside plant cable and wire is buried and thus protected from most weather events. The Company's central office switch capacity is engineered to accommodate traffic spikes, and its interexchange facilities also have the capacity to provide additional circuits for interexchange carriers should the need arise. The existing 120 interexchange trunks serving interexchange carriers provide a substantial margin of safety for traffic spikes and may be utilized for the traffic of all interexchange carriers to whom the Company provides switched access service. The middle-mile broadband capacity presently available to the Company substantially exceeds the current busy-period through-put requirements of the Company's

installed broadband service, and thus is believed by the Company to provide adequate reserve capacity for potential broadband traffic spikes.

In the case of isolated groups of customers whose service may suffer impairment due to a cable cut, the Company maintains sufficient staff and other resources to be able to put customers back in service in a very short amount of time, subject to road accessibility and environmental limitations. The Company's emergency service equipment is located within its service area and requires very little time to dispatch.