

Arctic Slope Telephone Association Cooperative, Inc.
Alaska Plan Performance Obligations
Wireline
10/18/2018 Revision

Note 1

Note 2

		Locations Passed 1/1/18	Number of Locations At Benchmark 1/1/18	Number of Locations At Benchmark Year 5	Number of Locations At Benchmark Year 10
Middle Mile Facility	Speed to End User				
Satellite	1Mb/256k	398	100%	100%	100%
Hybrid Microwave-Fiber*	10Mb/1Mb	161	100%	100%	100%
Fiber*	10Mb/1Mb	2156	100%	100%	100%
Fiber*	25Mb/3Mb				
Total		2,715			

Note 1: Residential speeds.

Note 2: Residential and estimated business locations passed in ETC's network as of 12/31/15.

* ASTAC is able to meet the latency requirements in those markets connected by Fiber and hybrid Microwave-Fiber middle mile. ASTAC is prepared to demonstrate why the reasonably comparable rate requirement is not feasible in any of its markets with use of a simple economic model. We will show that the prohibitive factor continues to be the high cost of middle mile transport.

Note 1

Note 2

Note 2

Middle Mile	Population 2010 Census	Technology Of Transmission (477 Code)	Spectrum Codes (477 Code)	Minimum Expected Upload/ Download Speeds	Population Served 12/31/15	% Base Population Served 12/31/15	5 Year Base Population Served	5 Year % Total Population Served	Minimum Expected Upload/ Download Speeds	10 Year Total Base Population Served	10 Year % Population Served	Minimum Expected Upload/ Download Speeds
Satellite*	6,427	86 (GSM) 2G	91	32/32 Kbps	6427	100%						
		81 (HSPA+) 3G	90, 91				985	100%	.2/.05 Mbps			
		83 (LTE) 4G	90, 91							985	100%	1.0/.25 Mbps
Total Satellite					6427	100%	985	100%		985	100%	
Microwave/Fiber	2,576	86 (GSM)	91		2576	100%						
		83 (LTE) 4G	90, 91, 94				402	100%	2/.8 Mbps	402	100%	5.0/1.0 Mbps
Total Microwave/Fiber					2576	100%	402	100%		402	100%	
Fiber		83 (LTE) 4G	90, 91, 94				7,616	100%	5.0/1.0 Mbps	7,616	100%	10.0/1.0 Mbps
Total Fiber							7,616	100%		7,616	100%	
Grand Total	9,003				9003	100%	9003	100%		9003	100%	

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure. Includes Prudhoe Bay, AK pops but note that 100% of reported "residents" are oilfield (shift) workers. **ASTAC has applied the "GCI Model" for population distribution within census blocks in all markets with the exception of the Prudhoe Bay region, where the private landholding logic does not correctly represent population distribution. ASTAC is able to illustrate that it covers 100% of the roads and all permanent lodging facilities in the region.**

Note 2: Microwave/Fiber middle mile markets assumes use of multiple spectrums to deliver services. Year one is 2017.

* Today, the limiting factor for broadband speeds on HSPA+ and LTE technology in a satellite fed middle mile market is the cost of that transport, not the technology itself. If ASTAC's economics change in the future we will update our obligations.

Sources: U.S. Census Bureau, Population Estimates Program (PEP), Updated annually. <http://www.census.gov/popest/>. U.S. Census Bureau, 2010 Census of Population, P94-171 Redistricting Data File. Updated every 10
Codes: <https://transition.fcc.gov/form477/477inst.pdf>