

**Alaska Telephone Association**

Ed Cushing  
President

201 E. 56<sup>th</sup> Avenue, Suite 114  
Anchorage, AK 99518  
(907) 563-4000  
www.alaskatel.org

Christine O'Connor  
Executive Director

November 19, 2015

**EX PARTE OR LATE FILED**

Ms. Marlene Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street, SW  
Room TW-A325  
Washington, DC 20554

**Accepted / Filed**

**NOV 19 2015**

Federal Communications Commission  
Office of the Secretary

RE: Ex parte filing in WC Docket No. 10-90

CONFIDENTIAL

Dear Ms. Dortch:

On November 17<sup>th</sup> and 18<sup>th</sup> the undersigned, joined by Eric Anderson from Matanuska Telephone Association in Palmer, AK, Dave Dengel and Shilah Butler from Copper Valley Telecom in Valdez, AK, Lucy McConnell from OTZ Telephone in Kotzebue, AK, Chris Nierman from GCI in Anchorage, AK, John Nakahata, Outside Counsel for GCI, and Jeff Smith from GVNW Consulting, Inc. met with Travis Litman, Legal Advisor to Commissioner Rosenworcel, Amy Bender, Legal Advisor to Commissioner Michael O'Rielly, Carol Matthey, Suzanne Yelen and Chris Cook from the Wireline Competition Bureau and Jim Schlichting, Margaret Wiener, Audra Hale-Maddox, and Sue McNeil from the Wireless Telecommunications Bureau discuss performance obligations related to the Consensus Alaska Plan.

We emphasized that the Consensus Alaska Plan was prepared as an interrelated whole, and thus it is important that both the RoR ILEC and CETC portions of the plan be adopted at the same time. Several ATA members have both RoR ILEC and wireless operations, and the plan also functions as a unitary whole in terms of preserving budgetary neutrality. We strongly urged that these be adopted together with the national rate-of-return carrier universal service changes that the Commission is considering. As we have previously explained, this Plan provides needed stability to continue infrastructure deployment in Alaska, with the flexibility necessary to accommodate Alaska's unique challenges in terms of geography, climate and supporting infrastructure (or lack thereof).

During the meetings the undersigned and John Nakahata (for the meeting with the Wireline Competition Bureau), outside counsel for GCI, reviewed highly confidential performance obligations for each company, which detailed broadband service that will be provided during the term of the Alaska Plan. That information is filed herewith pursuant to the Second Protective Order, and accordingly has not been shared between ATA member companies.

We reviewed statewide summaries demonstrating the improvements in both mobile and fixed broadband that will be accomplished under the Plan. We discussed timing of network

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Alaska Telephone Association Ex Parte Notice

investments and stated it is a priority for Alaskan companies participating in the Alaska Plan to provide 10Mbps/1Mbps service to as many locations as possible in the early years of the Plan, followed by upgrades to higher speeds where possible. We provided proposed changes to high cost rules for both Alaska rate-of-return carriers and CETCs that would implement the Alaska Plan and discussed reporting of progress toward reaching the proposed benchmarks through annual filing of Forms 481 and 477. We noted support from Alaska's Congressional delegation for the Alaska Plan as a solution for both rate-of-return and wireless carriers, as expressed in the joint letter sent to the Commission on November 17, 2015.

Individually, Eric Anderson presented proposed RoR ILEC obligations for Matanuska Telephone Association and Dave Dengel and Shilah Butler presented both RoR ILEC and mobile CETC obligations for Copper Valley Telecom.

Pursuant to Section 1.1206 of the Commission's rules, this ex parte letter is being filed via ECFS in WC Docket 10-90.

Respectfully submitted,

*Via ECFS 11/19/15*

Christine O'Connor  
Executive Director

Cc:

Amy Bender  
Travis Litman  
Carol Matthey  
Suzanne Yelen  
Chris Cook  
Jim Schlichting  
Margaret Wiener  
Audra Hale-Maddox  
Sue McNeil

Eric Anderson  
Dave Dengel  
Shilah Butler  
Lucy McConnell  
John Nakahata  
Chris Nierman  
Jeff Smith

Alaska Plan Performance Obligations

Rate of Return ILEC Statewide Summary

Increase in Broadband Speeds During Term of Alaska Plan

	Base Locations	1Mb/256k	4Mb/1Mb	10Mb/1Mb	25Mb/3Mb	50Mb/5Mb	100Mb/5Mb
12/31/2014	125,132	6%	15%	68%	37%	16%	8%
Year 5	125,132	6%	17%	76%	47%	24%	14%
Year 10	125,132	6%	17%	81%	62%	32%	20%

Increase in Broadband Speeds Detail by Middle Mile Facility

Middle Mile Facility	Speed to End User	Note 1	Note 2	Note 3					
			Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Satellite	1Mb/256k		125,132	6%	8,019	6%	7,004	6%	7,325
Hybrid Microwave-Fiber	4Mb/1Mb		125,132	15%	18,158	17%	20,815	17%	21,192
Fiber	10Mb/1Mb		125,132	68%	85,615	76%	94,700	81%	100,753
Fiber	25Mb/3Mb		125,132	37%	45,986	47%	59,430	62%	78,168
Fiber	50Mb/5Mb		125,132	16%	20,288	24%	30,144	32%	40,187
Fiber	100Mb/5Mb		125,132	8%	10,293	14%	18,110	20%	24,724

Note 1: Residential speeds.

Note 2: Locations passed in ILEC's network as of 12/31/14.

Note 3: Year 1 is 2016

**Alaska Plan Performance Obligations  
Alaska Telephone Company**

	Note 1	Note 2					
	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility							
Satellite - 1Mb/256k							
Microwave 4Mb/1Mb							
Microwave - 10Mb/1Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Alaska Plan Performance Obligations

Arctic Slope Telephone Cooperative, Inc.

Note 1		Note 2			Note 4		Note 5	
Middle Mile Facility	Speed to End User	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Satellite	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Hybrid Microwave-Fiber	10Mb/1Mb							
Hybrid Microwave-Fiber	25Mb/3Mb							
Hybrid Microwave-Fiber	50Mb/5Mb							
Hybrid Microwave-Fiber	100Mb/5Mb							
Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
Bettles Telephone, Inc.**

	Note 1	Note 2		
	Base Locations	% at	% at	% at
	12/31/2014	Benchmark	Benchmark	Benchmark
Middle Mile Facility	12/31/2014	12/31/2014	Year 5	Year 10
Satellite - 1Mb/256k				
Hybrid Microwave-Fiber - 4Mb/1Mb				
Fiber - 10Mb/1Mb				
Fiber - 25Mb/3Mb				
Fiber - 50Mb/5Mb				
Fiber - 100Mb/5Mb				

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



**Alaska Plan Performance Obligations  
Bushtel**

	Note 1	Note 2	% At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10
Middle Mile Facility	Speed to End User	Base Locations 12/31/14			
Satellite	1Mb/256k				
Hybrid Microwave-Fiber	4Mb/1Mb				
Fiber	10Mb/1Mb				
Fiber	25Mb/3Mb				
Fiber	50Mb/5Mb				
Fiber	100Mb/5Mb				

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016

Alaska Plan Performance Obligations

Copper Valley Telephone Cooperative

Note 1

Note 2

		Base Locations 12/31/14	Number At Or Above Benchmark 12/31/14	% At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility	Speed to End User							
Satellite	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
Cordova Telephone Cooperative**

Note 1

Note 2

		Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility	Speed to End User							
Satellite	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
Interior Telephone Company**

	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
<b>Middle Mile Facility</b>							
Satellite - 1Mb/256k							
Hybrid Microwave-Fiber - 4Mb/1Mb							
Fiber - 10Mb/1Mb							
Fiber - 25Mb/3Mb							
Fiber - 50Mb/5Mb							
Fiber - 100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
KPU**

		Note 1	Note 2					
Middle Mile Facility	Speed to End User	Base Locations 12/31/2014	% At Or Above Benchmark 12/31/2014	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Satellite	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
Matanuska Telephone Association**

Note 1

Note 2

		Base Locations 12/31/2014	% At Or Above Benchmark 12/31/2014	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility	Speed to End User							
Satellite	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

**Alaska Plan Performance Obligations  
Mukluk Telephone Company**

	Note 1	Note 2					
	Base	% At Or	# At Or	% At Or	# At Or	% At Or	# At Or
	Locations	Above	Above	Above	Above	Above	Above
	12/31/14	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
		12/31/14	12/31/14	Year 5	Year 5	Year 10	Year 10
Middle Mile Facility							
Satellite - 1Mb/256k							
Hybrid Microwave-Fiber - 4Mb/1Mb							
Fiber - 10Mb/1Mb							
Fiber - 25Mb/3Mb							
Fiber - 50Mb/5Mb							
Fiber - 100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

Alaska Plan Performance Obligations  
North Country Telephone

	Note 1	Note 2					
	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Satellite - 1Mb/256k							
Hybrid Microwave-Fiber - 4Mb/1Mb							
Fiber - 10Mb/1Mb							
Fiber - 25Mb/3Mb							
Fiber - 50Mb/5Mb							
Fiber - 100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Alaska Plan Performance Obligations  
Nushagak Telephone Cooperative

	Note 1	Note 2					
	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility							
Satellite - 1Mb/256k							
Hybrid Microwave-Fiber - [REDACTED] *							
Fiber - 10Mb/1Mb							
Fiber - 25Mb/3Mb							
Fiber - 50Mb/5Mb							
Fiber - 100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

Note 4: [REDACTED]

Note 5: [REDACTED]

Note 6: [REDACTED]

\* Locations are included in the 4Mb/1Mb statewide compilation.

**Alaska Plan Performance Obligations  
OTZ Telephone Cooperative**

		Note 1	Note 2					
Middle Mile Facility	Speed to End User	Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Satellite - Note 4	1Mb/256k							
Hybrid Microwave-Fiber	4Mb/1Mb							
Fiber	10Mb/1Mb							
Fiber	25Mb/3Mb							
Fiber	50Mb/5Mb							
Fiber	100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

Note 4: [REDACTED]

Alaska Plan Performance Obligations  
 United Utilities - Yukon Telephone

	Note 1	Note 2					
	Total Base Locations 12/31/14	% At Or Above Benchmark 12/31/14	# At Or Above Benchmark 12/31/14	% At Or Above Benchmark Year 5	# At Or Above Benchmark Year 5	% At Or Above Benchmark Year 10	# At Or Above Benchmark Year 10
Middle Mile Facility							
Satellite - 1Mb/256k							
Hybrid Microwave-Fiber - 4Mb/1Mb							
Fiber - 10Mb/1Mb							
Fiber - 25Mb/3Mb							
Fiber - 50Mb/5Mb							
Fiber - 100Mb/5Mb							

Note 1: Residential speeds.

Note 2: Locations passed in ETC's network as of 12/31/14.

Note 3: Year 1 is 2016.

## CETC Wireless Statewide Summary

## Improvement in Rural Wireless Service

	Baseline Population	2G	3G	4G
12/31/2014	151,309	89%	48%	10%
Year 5	151,309	90%	71%	32%
Year 10	151,309	91%	83%	61%

## Improvement Detail by Middle Mile Facility

Middle Mile	Base Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	5 Year Base Population	Minimum Service	5 Year Population Served	5 Year % Population Served	10 Year Base Population	Minimum Service	10 Year Population Served	10 Year % Population Served
Satellite	51,882	2G/voice	42,534	82.0%	43,198	2G/voice	36,157	83.7%	43,198	2G/voice	36,260	83.9%
		3G	2,885	5.6%		3G	16,925	39.2%		3G	27,989	64.8%
		4G	-	0.0%		4G	14,698	34.0%		4G	16,226	37.6%
Microwave	38,814	2G/voice	36,743	94.7%	39,125	2G/voice	37,017	94.6%	39,125	2G/voice	37,017	94.6%
		3G	23,226	59.8%		3G	34,067	87.1%		3G	35,847	91.6%
		4G	2,211	5.7%		4G	2,485	6.4%		4G	14,173	36.2%
Fiber	60,613	2G/voice	55,360	91.3%	68,986	2G/voice	63,464	92.0%	68,986	2G/voice	63,464	92.0%
		3G	45,823	75.6%		3G	55,783	80.9%		3G	62,069	90.0%
		4G	12,297	20.3%		4G	31,549	45.7%		4G	62,069	90.0%

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

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Alaska Plan Performance Obligations

ASTAC Wireless

	Note 1	Note 2		Note 4																								
Middle Mile	Base Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	5 Year Base Population	Minimum Service	5 Year Population Served	5 Year % Population Served	10 Year Base Population	Minimum Service	10 Year Total Population Served	10 Year % Population Served																
Satellite	9,003	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]																
		3G				3G				3G																		
		4G				4G				4G																		
Microwave		2G/voice				[REDACTED]				[REDACTED]			[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]								
		3G												3G				3G										
		4G												4G				4G										
Fiber		2G/voice												[REDACTED]				[REDACTED]			[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]
		3G																				3G				3G		
		4G																				4G				4G		

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

Note 4: [REDACTED]

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Alaska Plan Performance Obligations

Bristol Bay Cellular Partnership

	Note 1		Note 2									
Middle Mile	Population 2010 Census	Minimum Service	Population Served 12/31/14	% Base Population Served 12/31/14	5 Year Base Population	Minimum Service	5 Year Base Population Served	5 Year % Total Population Served	10 Year Base Population	Minimum Service	10 Year Total Base Population Served	10 Year % Population Served
Satellite		2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		
Microwave	997	2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		
Fiber		2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

Note 4: [REDACTED]

Alaska Plan Performance Obligations

Copper Valley Wireless

	Note 1		Note 2									
	Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	5 Year Base Population	Minimum Service	5 Year Population Served	5 Year % Total Population Served	10 Year Base Population	Minimum Service	10 Year Total Population Served	10 Year % Population Served
Middle Mile												
Satellite		2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		
Microwave	2,426	2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		
Fiber	6,708	2G/voice				2G/voice				2G/voice		
		3G				3G				3G		
		4G				4G				4G		

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

Alaska Plan Performance Obligations  
Cordova Wireless

	Note 1		Note 2							
Middle Mile	Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	Minimum Service	5 Year Population Served	5 Year % Total Population Served	Minimum Service	10 Year Total Population Served	10 Year % Population Served
Satellite		2G/voice			2G/voice			2G/voice		
		3G			3G			3G		
		4G			4G			4G		
Microwave		2G/voice			2G/voice			2G/voice		
		3G			3G			3G		
		4G			4G			4G		
Fiber	2,400	2G/voice			2G/voice			2G/voice		
		3G			3G			3G		
		4G			4G			4G		

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

Alaska Plan Performance Obligations

General Communications Corporation

Note 1      Note 2

Middle Mile	Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	Minimum Service	5 Year Population Served	5 Year % Total Population Served	Minimum Service	10 Year Total Population Served	10 Year % Population Served												
Satellite	35,333	2G/voice	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]												
		3G			3G			3G														
		4G			4G			4G														
Microwave	46,743	2G/voice			[REDACTED]			[REDACTED]			2G/voice	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]						
		3G									3G			3G								
		4G									4G			4G								
Fiber	69,233	2G/voice									[REDACTED]			[REDACTED]			2G/voice	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]
		3G															3G			3G		
		4G															4G			4G		
Total	151,309	2G/voice	[REDACTED]	[REDACTED]		2G/voice	[REDACTED]		[REDACTED]	2G/voice							[REDACTED]			[REDACTED]		
		3G				3G				3G												
		4G				4G				4G												

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016

**REDACTED - FOR PUBLIC INSPECTION**

**Alaska Plan Performance Obligations**

**OTZ Wireless**

	Note 1	Note 2											
Middle Mile	Population 2010 Census	Minimum Service	Population Served 12/31/14	% Population Served 12/31/14	5 Year Base Population	Minimum Service	5 Year Population Served	5 Year % Total Population Served	10 Year Base Population	Minimum Service	10 Year Total Population Served	10 Year % Population Served	
Satellite	7,523	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	[REDACTED]	2G/voice	[REDACTED]	[REDACTED]	
		3G				3G				3G			
		4G				4G				4G			
Microwave	0	2G/voice				2G/voice				2G/voice			
		3G				3G				3G			
		4G				4G				4G			
Fiber		2G/voice				2G/voice				2G/voice			
		3G				3G				3G			
		4G				4G				4G			

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Service levels describe performance, not technology. 47 CFR § 54.1006(a) defines 3G benchmark performance level, 47 CFR § 54.1006(b) defines 4G benchmark performance level.

Note 3: Year 1 is 2016