

U.S. DEPARTMENT OF COMMERCE

National Telecommunications and Information Administration

FY 2024 Budget as Presented to Congress



March 2023

THIS PAGE INTENTIONALLY LEFT BLANK.

**DEPARTMENT OF COMMERCE
NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION
Budget Estimates, Fiscal Year 2024
Congressional Submission
Table of Contents**

<u>Exhibit Number</u>	<u>Exhibit</u>	<u>Page Number</u>
2	Organization Chart	NTIA-1
3	Executive Summary	NTIA-3
4A	Program Increases/Decreases/Terminations	NTIA-7
 Salaries and Expenses		
5	Summary of Resource Requirements: Direct Obligations	NTIA-9
6	Summary of Reimbursable Obligations	NTIA-11
7	Summary of Financing	NTIA-13
8	Adjustments-to-Base	NTIA-14
10,12	Program and Performance (Domestic and International Policies)	NTIA-15
10,11,12,13,14,15	Program and Performance (Spectrum Management)	NTIA-21
10,11,12,13,14,15	Program and Performance (Advanced Communications Research)	NTIA-31
10,12,13,14,15	Program and Performance (Broadband Programs)	NTIA-39
10,12,13,15	Program and Performance (Public Safety Communications)	NTIA-49
16	Summary of Requirements by Object Class	NTIA-57
16A	Select Activities by Object Class (Domestic and International Policies)	NTIA-59
16A	Select Activities by Object Class (Spectrum Management)	NTIA-61
16A	Select Activities by Object Class (Advanced Communications Research)	NTIA-63
16A	Select Activities by Object Class (Broadband Programs)	NTIA-65
16A	Select Activities by Object Class (Public Safety Communications)	NTIA-67
32	Justification of Proposed Language Changes	NTIA-69
33	Appropriations Language and Code Citation	NTIA-70
34	Advisory and Assistance Services	NTIA-72
35	Periodicals, Pamphlets, and Audiovisual Services	NTIA-73
36	Average Grade and Salaries	NTIA-74
41	Implementation Status of GAO and OIG Recommendations	NTIA-77
42	Description of Tribal Consultation	NTIA-82

Exhibit 1

<u>Exhibit Number</u>	<u>Exhibit</u>	<u>Page Number</u>
Facilities Management and Construction		
5	Summary of Resource Requirements: Direct Obligations	NTIA-83
7	Summary of Financing	NTIA-85
8	Adjustments-to-Base	NTIA-86
10,12,13,14,15	Program and Performance	NTIA-87
16	Summary of Requirements by Object Class	NTIA-93
33	Appropriations Language and Code Citation	NTIA-95
34	Advisory and Assistance Services	NTIA-96
Public Telecommunications Facilities, Planning and Construction		
5	Summary of Resource Requirements: Direct Obligations	NTIA-97
12	Justification of Program and Performance	NTIA-99
33	Appropriations Language and Code Citation	NTIA-100
Public Safety Trust Fund		
5	Summary of Resource Requirements: Direct Obligations (Public Safety Trust Fund - PSTF)	NTIA-101
6	Summary of Reimbursable Obligations (State and Local Implementation Fund)	NTIA-103
6	Summary of Reimbursable Obligations (Network Construction Fund)	NTIA-104
6	Summary of Reimbursable Obligations (First Responder Network Authority)	NTIA-105
10,12	Program and Performance	NTIA-106
16	Summary of Requirements by Object Class (Public Safety Trust Fund - PSTF)	NTIA-108
Broadband Connectivity Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-111
6	Summary of Reimbursable Obligations (Tribal)	NTIA-113
6	Summary of Reimbursable Obligations (Infrastructure Broadband Connectivity)	NTIA-114
8	Adjustments-to-Base	NTIA-115
10,12	Program and Performance	NTIA-116
16	Summary of Requirements by Object Class	NTIA-120
34	Advisory and Assistance Services	NTIA-122

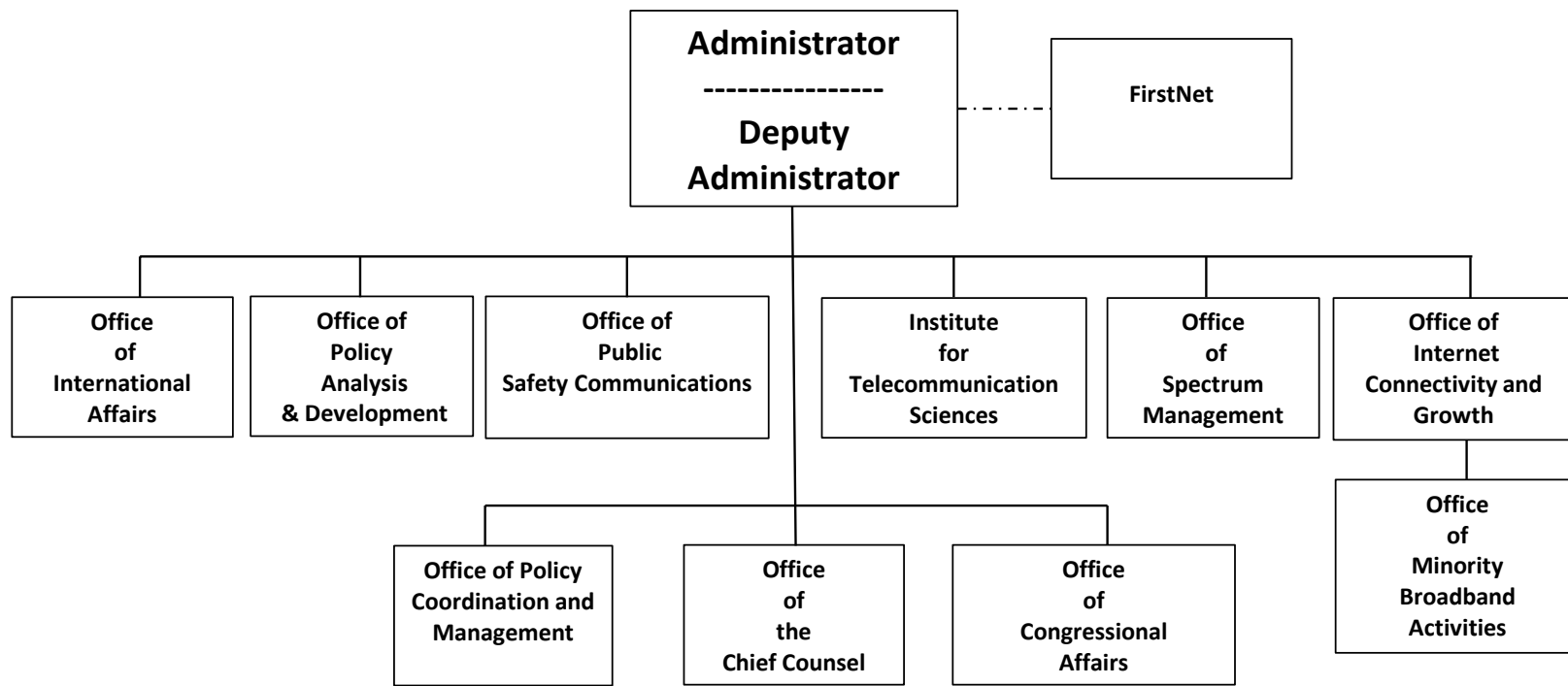
Exhibit 1

<u>Exhibit Number</u>	<u>Exhibit</u>	<u>Page Number</u>
Connecting Minority Communities Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-123
6	Summary of Reimbursable Obligations	NTIA-125
8	Adjustments-to-Base	NTIA-126
10,12	Program and Performance	NTIA-127
16	Summary of Requirements by Object Class	NTIA-130
34	Advisory and Assistance Services	NTIA-132
Broadband Equity, Access, and Deployment Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-133
6	Summary of Reimbursable Obligations	NTIA-135
8	Adjustments-to-Base	NTIA-136
10,12	Program and Performance	NTIA-137
16	Summary of Requirements by Object Class	NTIA-140
34	Advisory and Assistance Services	NTIA-142
Digital Equity Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-143
6	Summary of Reimbursable Obligations	NTIA-145
8	Adjustments-to-Base	NTIA-146
10,12	Program and Performance	NTIA-147
16	Summary of Requirements by Object Class	NTIA-150
34	Advisory and Assistance Services	NTIA-152
Middle Mile Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-153
8	Adjustments-to-Base	NTIA-155
10,12	Program and Performance	NTIA-156
16	Summary of Requirements by Object Class	NTIA-159
34	Advisory and Assistance Services	NTIA-161

Exhibit 1

<u>Exhibit Number</u>	<u>Exhibit</u>	<u>Page Number</u>
Public Wireless Supply Chain Innovation Fund		
5	Summary of Resource Requirements: Direct Obligations	NTIA-163
8	Adjustments-to-Base	NTIA-165
10,12	Program and Performance	NTIA-166
16	Summary of Requirements by Object Class	NTIA-169
34	Advisory and Assistance Services	NTIA-171
FY 2024/2022 Annual Performance Plan/Report		NTIA-173

Department of Commerce
National Telecommunications and Information Administration



THIS PAGE INTENTIONALLY LEFT BLANK.

**Department of Commerce
National Telecommunications and Information Administration
Budget Estimate, Fiscal Year 2024
Executive Summary**

The National Telecommunications and Information Administration's (NTIA) FY 2024 Budget Request totals \$117.3 million and 235 positions. The budget request supports NTIA's critical role of advising the President on communications and information policy issues. NTIA's programs and policymaking, focus on expanding the availability of spectrum for all users, managing core spectrum programs effectively and efficiently, and identifying innovative approaches to increase spectrum access and spectrum sharing opportunities. This Budget provides the resources to ensure that the Internet remains an engine for continued economic growth, promotes a 21st century Internet economy in rural communities, and expands broadband Internet access and adoption in America.

Domestic and International Policies. NTIA's domestic and international policies program funding request in FY 2024 totals \$17.4 million and 49 positions. NTIA's domestic and international policies work to preserve the Internet's openness and its cultural and economic potentials while advancing key U.S. interests. As the President's advisor on information and communications policy, NTIA is a critical interface between the private sector and government decision makers. In this role, NTIA helps ensure U.S. policies maximize national security objectives and resources and helps develop and drive adoption of market-based, risk-based cybersecurity guidelines to improve the private sector's cybersecurity resilience while advancing the policy goals of the U.S.

NTIA, through its domestic and international policies program, coordinates Executive Branch communications policy and represents the Administration's policy to independent agencies such as the Federal Communications Commission (FCC) and the Federal Trade Commission (FTC). NTIA must be positioned to meet the growing complexity of the Internet environment, as the world becomes more interconnected via rapid growth of the Internet, the globalization of information technology services and equipment, and as governance of the Internet becomes an increasingly complex geopolitical issue. Utilizing the multistakeholder process to reach general consensus on internet policy issues, NTIA is central to the Executive Branch's involvement in the Internet Governance Forum (IGF), and its support of mutual legal assistance treaty modernization efforts with key U.S. industries.

Spectrum Management. NTIA's spectrum management program direct funding request for FY 2024 totals \$25.0 million and 37 positions. NTIA will continue to evolve its analysis capabilities to increase spectrum access available to commercial and Federal users. The budget will support the commercial sector's development of next generation wireless services by recommending reallocation of spectrum for commercial use and by promoting spectrum sharing between commercial and government users. The agency promotes the most efficient use of the limited spectrum resources across the Federal Government. Working with the FCC, NTIA coordinates international and domestic spectrum access requirements, identifies and reallocates spectrum bands for

Exhibit 3

commercial use, updates spectrum policies, and develops long-range spectrum management plans. NTIA collaborates with the State Department to advance U.S. interests and positions related to international spectrum issues, conferences, and negotiations. The Budget proposes to increase Spectrum Management by \$14.0 million and 6 positions for Informing Incumbent Capability (IIC). The IIC program is a mechanism for dynamically sharing spectrum in a given band that would enable managing interference between incumbent federal users and new entrants.

Advanced Communications Research. NTIA's advanced communications research program direct funding request for FY 2024 totals \$21.8 million and 60 positions. Communications research will keep identifying innovative approaches to increase spectrum access and sharing opportunities. This FY 2024 request will both sustain and increase resources for NTIA's Institute for Telecommunication Sciences (ITS), which provides scientific research, development, and testing on spectrum capability, spectrum sharing approaches, and spectrum-enabled technology for both Federal agencies and private industry partners.¹ NTIA is also expanding collaborative research and development in advanced communications technologies to support commercial and government applications to enhance wireless efficiencies. The Budget proposes to increase Advanced Communications Research by \$6.6 million and 17 positions for a Spectrum Innovation Research Incubator (SIRI). SIRI will improve the interagency coordination process and accelerate deployment of commercial wireless technologies by proactively performing engineering studies and analyses.

BroadbandUSA. NTIA's broadband program funding request in FY 2024 totals \$40.9 million and 81 positions. Broadband has become integral in fueling a dynamic economy, driving commerce, enriching education, enhancing healthcare, and improving public safety. The 2020 COVID-19 crisis highlighted the digital divide across the country—leaving behind rural communities and economically disadvantaged neighborhoods. Communities without high-speed, affordable broadband fell farther behind as they were cut off from education and job opportunities and unable to participate in the digital economy. In FY 2024, NTIA will continue to support communities in their efforts to close the digital divide and to improve broadband services in unserved and underserved communities across the country. The Budget proposes to increase Broadband Programs for Grant Monitoring and Oversight by \$20.1 million and 41 positions. Funding will allow NTIA to conduct more administrative oversight of grants funded under the Infrastructure Investment and Jobs Act of 2022 and Consolidated Appropriations Act, 2021.

Public Safety Communications. NTIA's public safety communications program funding request in FY 2024 totals \$4.6 million and 7 positions. As communication technologies continue to evolve, our nation's 911 call centers are unable to keep pace with technological advancements, threatening the integrity of our Nation's emergency communications systems. NTIA's public safety communications program provides the technical expertise and coordination support necessary to enable our Nation's 911 systems to upgrade from analog to Internet Protocol (IP)-based systems, commonly referred to as Next Generation 911.

¹ Federal and Industry Partners -<https://www.its.blrdoc.gov/publications/3181.aspx>

Exhibit 3

Facilities Management Construction. To support the increased demands of modern spectrum sharing research, NTIA is proposing a new, \$7.6 million and 1 position Facility Management and Construction account for the restoration and modernization of its facilities and telecommunication infrastructure, roads, and ground of its NTIA government-owned facilities to meet modern research, accessibility, safety, reliability, and energy efficiency requirements. Maintenance and construction projects will include renovating building interiors, repairing and upgrading roofs, replacing HVAC systems, installing energy-efficient building exteriors, replacing water-holding tanks and septic systems, expanding research facility square footage, and repairing/replacing perimeter fencing.

Performance:

For current Government Performance and Results Act targets, please see the FY2024/2022 Annual Performance Plan and Report.

Adjustments:

The NTIA's FY 2024 Base includes a total of \$5.6 million and 5 FTE / 0 Positions to account for the full funding requirement for inflationary adjustments to current programs. This includes the estimated FY 2024 civilian pay raise of 5.2 percent, as well as inflationary increases and adjustments to base for estimated labor and no-labor activities, including benefits, service contracts, utilities, and rent charges from the General Services Administration.

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
FY 2024 PROGRAM INCREASES / DECREASES / TERMINATIONS
(Dollar amounts in thousands)
(By Appropriation, Largest to Smallest)

Increases

Page No In CJ	Appropriations	Budget Program	Title of Increase	Positions	Budget Authority
NTIA-44	Salaries and Expenses	Broadband Programs	Grant Monitoring and Oversight	41	\$20,119
NTIA-26	Salaries and Expenses	Spectrum Management	Informing Incumbent Capability	6	14,008
NTIA-36	Salaries and Expenses	Advanced Communications Research	Spectrum Innovation Research Incubator	17	6,596
NTIA-54	Salaries and Expenses	Public Safety Communications	Transition from Mandatory Accounts	0	1,341
NTIA-90	Facilities Management and Construction	Facilities Management and Construction	Facilities Management and Construction	1	7,612
Total, Increases				65	49,676

THIS PAGE INTENTIONALLY LEFT BLANK.

National Telecommunications and Information Administration
Salaries and Expenses
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	170	141	\$62,000	\$68,613
Less: Unobligated balance, start of year, 2023				(6,613)
2024 Adjustments to base:				
Plus: Inflationary adjustments to base	0	5	5,601	5,601
2024 Base	170	146	67,601	67,601
Plus: 2024 Program changes	64	58	42,064	42,064
2024 Estimate	234	204	109,665	109,665

Comparison by activity/subactivity: with totals by activity			2022		2023		2024		2024		Increase/Decrease	
			Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
NTIA-15	Domestic and International Policies	Pos./BA	39	\$11,916	49	\$15,565	49	\$17,386	49	\$17,386	0	\$0
		FTE/Obl.	36	10,389	40	19,671	43	17,386	43	17,386	0	0
NTIA-21	Spectrum Management	Pos./BA	26	8,342	31	9,975	31	10,973	37	24,981	6	14,008
		FTE/Obl.	25	8,142	29	10,357	30	10,973	34	24,981	4	14,008
NTIA-31	Advanced Communications Research	Pos./BA	39	12,378	43	13,893	43	15,172	60	21,768	17	6,596
		FTE/Obl.	29	12,609	31	14,461	31	15,172	44	21,768	13	6,596
NTIA-39	Broadband Programs	Pos./BA	29	16,985	40	19,485	40	20,786	81	40,905	41	20,119
		FTE/Obl.	29	22,970	34	20,685	35	20,786	76	40,905	41	20,119
NTIA-49	Public Safety Communications	Pos./BA	1	379	7	3,082	7	3,284	7	4,625	0	1,341
		FTE/Obl.	1	325	7	3,439	7	3,284	7	4,625	0	1,341
	Total	Pos./BA	134	50,000	170	62,000	170	67,601	234	109,665	64	42,064
		FTE/Obl.	120	54,435	141	68,613	146	67,601	204	109,665	58	42,064

Adjustments for:

Recoveries	(919)	0	0	0	0
Unobligated balance, start of year	(10,831)	(6,613)	0	0	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	6,613	0	0	0	0
Unobligated balance expiring	702	0	0	0	0

Financing from transfers:

Transfer from other accounts (-)	0	0	0	0	0
Transfer to other accounts (+)	0	0	0	0	0

Appropriation	50,000	62,000	67,601	109,665	42,064
---------------	--------	--------	--------	---------	--------

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity		2022		2023		2024		2024		Increase/Decrease	
		Actual	Amount	Enacted	Amount	Base	Amount	Estimate	Amount	from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Reimbursable Projects											
Advanced Communications Research	Pos./BA	48	51,882	57	60,000	57	60,000	57	60,000	0	0
	FTE/Obl.	37	19,180	50	20,000	50	20,000	50	20,000	0	0
Other	Pos./BA	0	1,120	5	2,000	2	2,000	5	2,000	0	0
	FTE/Obl.	0	20	4	2,000	2	2,000	4	2,000	0	0
Total, Reimbursable Projects	Pos./BA	48	53,002	62	62,000	59	62,000	62	62,000	0	0
	FTE/Obl.	37	19,200	54	22,000	52	22,000	54	22,000	0	0
Spectrum Fees											
Spectrum Management	Pos./BA	110	56,199	107	60,000	107	60,000	116	60,000	0	0
	FTE/Obl.	101	36,505	107	40,679	107	40,679	96	40,679	0	0
Total, Spectrum Fees	Pos./BA	110	56,199	116	60,000	107	60,000	116	122,000	0	0
	FTE/Obl.	101	36,505	96	40,679	107	40,679	96	40,679	0	0
Total, Reimbursable Obligations	Pos./BA	158	109,201	178	122,000	166	122,000	178	184,000	0	0
	FTE/Obl.	138	55,705	150	62,679	159	62,679	150	62,679	0	0

THIS PAGE INTENTIONALLY LEFT BLANK.

National Telecommunications and Information Administration
Salaries and Expenses
SUMMARY OF FINANCING
(Dollar amounts in thousands)

	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
Total Obligations	\$110,140	\$137,205	\$130,280	\$172,344	\$42,064
Offsetting collections from:					
Federal funds	(55,297)	(62,179)	(62,179)	(62,179)	0
Non-Federal sources	(408)	(500)	(500)	(500)	0
Recoveries	(919)	0	0	0	0
Unobligated balance, start of year	(10,831)	(6,613)	0	0	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	6,613	0	0	0	0
Unobligated balance expiring	702	0	0	0	0
Budget Authority	43,604	67,913	67,601	109,665	42,064
Financing:					
Transfer from other accounts (-)	0	0	0	0	0
Transfer to other accounts (+)	0	0	0	0	0
Appropriation	43,604	67,913	67,601	109,665	42,064

Exhibit 8

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	0	0
Financing	0	0
 Other Changes:		
2023 Pay raise		294
2024 Pay raise		1,016
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023 (5 FTE)	0	647
Change in compensable days		101
Civil Service Retirement System (CSRS)		(1)
Federal Employees Retirement System (FERS)		(42)
Thrift Savings Plan		(25)
Federal Insurance Contribution Act (FICA) - OASDI		13
Health insurance		30
Employees Compensation Fund		5
Travel:		5
Mileage		0
Per diem		8
Rental payments to GSA		234
GSA Furniture and IT Program (FIT)		(178)
Postage		1
Working Capital Fund, Departmental Management*		3,857
Cybersecurity [Non-Add in WCF]		[82]
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		293
Telecommunications Services - Enterprise Infrastructure Services		(336)
Enterprise Services		(328)
Commerce Business System		0
Federal Protective Service		7
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>5,601</u>
Total, adjustments to base	<u>0</u>	<u>5,601</u>

*NTIA's total FY 2024 Working Capital Fund bill will be \$11,307,000, of which 3,857,000 is funded in Salaries and Expenses and \$7,450,000 is funded through other NTIA accounts, such as broadband programs appropriated via the Infrastructure Investment and Jobs Act, 2022.

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Domestic and International Policies

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Domestic and International Policies	Pos./BA	39	11,916	49	15,565	49	17,386	49	17,386	0	0
	FTE/Obl	36	10,389	40	19,671	43	17,386	43	17,386	0	0
Total	Pos./BA	39	11,916	49	15,565	49	17,386	49	17,386	0	0
	FTE/Obl	36	10,389	40	19,671	43	17,386	43	17,386	0	0

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)

Activity: Domestic and International Policies

Goal Statement

The goal of the Domestic and International Policies program is to strengthen U.S. commerce by advancing policies that protect and promote the Internet and digital commerce, foster innovation, create economic value, and enhance security both domestically and internationally.

Base Program

NTIA's strategic focus is to protect and promote an open, interoperable Internet; advocate for the free flow of information, goods, and services; promote policies that maximize national security objectives and lessen collateral consequences; reduce regulatory barriers; and strengthen the global marketplace for American digital products and services. The Internet is the greatest engine of communications and commerce the world has ever known and is vital to U.S. economic leadership, innovation, and prosperity. Through its programs, NTIA improves the domestic and international policy landscape for the Internet and digital economy, which accounts for \$1.2 trillion, or 6.5%, of the U.S. gross domestic product, and nearly six million jobs.¹ On behalf of the Administration, NTIA carries out its diverse programs and services, using and promoting multistakeholder approaches to lead U.S. policymakers, domestic industry, foreign governments, and international organizations in addressing Internet and digital economy policymaking, standards development, and governance issues. By advocating for market-driven policies and multistakeholder informed initiatives, NTIA supports online commerce, greater employment opportunities, and better quality of life for all Americans.

Statement of Operating Objectives

As the President's principal advisor on telecommunications and information policy issues NTIA will support Presidential initiatives, the White House's National Security Strategy, and the Department of Commerce's Internet and digital commerce programs as they relate to the concerns of the U.S. business community, the promotion of market-based solutions, and the preservation of U.S. technology. NTIA's objective is to establish domestic and international policy leadership on such issues as consumer data privacy, the Internet's domain name

¹ Bureau of Economic Analysis – <https://www.bea.gov/digital-economy>

system, cybersecurity, online platforms, telecommunications standards, 5G and next generation communications, the Internet of Things (IoT), and artificial intelligence (AI).

Domestically and internationally, U.S. industry and consumers rely significantly on the open Internet. Thus, in FY 2024, NTIA will lead the Department of Commerce's bureaus on Internet and digital commerce strategies by conducting research and providing analytical support. NTIA works to advance the conversation on domestic privacy reform through stakeholder outreach and interagency consensus building. Further, NTIA is the Executive Branch expert on issues relating to the Domain Name System (DNS) and will support a multi-stakeholder approach to the coordination of the DNS to ensure the long-term viability of the Internet as a force for innovation and economic growth, including by providing a framework for the administration of the .edu and .us domains. In this capacity, NTIA has also worked to ensure that foreign data protection legislation does not unduly curtail access to information or freedom of speech, vital American priorities.

Because American businesses and governmental entities continue to be the target of cyber-attacks, in FY 2024, NTIA will convene industry to seek market-based, innovative solutions to cybersecurity challenges that require cross-sector collaboration. The goal of these activities is to improve industry-led adoption and awareness of cyber policy best practices and to examine where market incentives are imbalanced or insufficient. NTIA will accomplish the following cyber policy outcomes: (1) Finalize working group reports and continue to promote and support advancements on Software Component Transparency and Software Bill of Materials (SBOM) as outlined in NTIA's Executive-Order directed Report on Minimum Elements for an SBOM; (2) lead the recommendations on the Vulnerabilities Equities Process (VEP) on whether to disclose cybersecurity vulnerability information to the vendor so they will patch the vulnerability or temporarily restrict knowledge of the vulnerability so that it can be used for national security or law enforcement purposes; and (3) advise the Administration on security threats to the telecommunications infrastructure from foreign license applicants.

In FY 2024, NTIA will represent the Administration's policies to independent agencies, including the Federal Communications Commission (FCC) and the Federal Trade Commission (FTC) with the goal of advocating for market-based, consensus-driven policies versus overly burdensome regulation. For the education and promotion of the importance of a free and open Internet, NTIA will provide training in coordination with foreign assistance efforts, such as the Telecommunications Leadership Program and the U.S. Telecommunications Training Institute.

Explanation and Justification

NTIA is the U.S. government leader in the strategic development, promotion, and execution of policies to support the domestic and global Internet and broader digital commerce. NTIA's Internet policy framework contributes to the efficient and equitable operation of the digital economy on a global scale and provides infrastructure for innovation and entrepreneurship to enhance American competitiveness. NTIA's domestic and international policy activities require it to maintain expertise and leadership on telecommunications and information policy issues

and to identify the most important for Executive Branch attention. NTIA plays a critical role in representing the United States in multiple treaty-based and technical standards setting fora in order to provide leadership and advance U.S. national economic and technology policies.

		2022 Actual		2023 Enacted		2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Domestic and International Policies	Pos./BA	39	\$11,916	49	\$15,565	49	\$17,386
	FTE/Obl.	36	10,389	40	19,671	43	17,386

With the FY 2024 base resources, NTIA’s domestic and international policies program will focus their efforts on the following key areas, as outlined below.

Executive Branch Support. In its role as advisor to the President on telecommunications and Internet issues, NTIA coordinates Executive Branch communications and Internet policy, represents the Administration’s policy to independent agencies, including the FCC and the FTC, and provides technical and policy expertise on Internet infrastructure to the Executive Branch and other stakeholders. NTIA coordinates United States government (USG) domestic and international policies and positions that impact the Internet and other communications. NTIA plays an integral role in supporting the interagency legislative coordination and clearance process by reviewing Internet and digital commerce policies.

Law Enforcement and National Security. NTIA provides advice focusing on innovation and economic growth in policy discussions related to the protection of Americans from cyber threats. As such, in FY 2024, NTIA will take action to continue to participate in interagency discussions on topics ranging from countering online violence and radical extremism to proposals to authorize companies to “hack back” against the perpetrators of cyber-attacks. NTIA is the lead for the Department in representing its equities in interagency deliberations related to cyber operations and policy, and thus continued program support will enable it to continue to convene stakeholders from across the ecosystem to address cybersecurity challenges in a proactive collaborative manner, including in response to new and emerging risks posed by emerging technologies.

Digital Commerce Leadership. NTIA will support the Department’s leadership team by providing analytical and technical expertise on cross-cutting issues and convening senior leaders for decision making and direction on Internet policy economic competitiveness and digital commerce issues. NTIA will continue to serve in leading and supporting roles in communications and information policy, economic analysis,

intellectual property, trade, and technical standards to address the most pressing issues in the digital commerce and Internet economy, including the areas of online speech and content moderation, privacy, and 5G and next generation communications.

Multistakeholder Engagements. To promote American prosperity, NTIA develops Internet policies designed to protect and expand Internet use and encourage further innovation and economic growth. Through its multistakeholder engagements, NTIA expands and strengthens Internet policy development to include economic and business/industry concerns and impacts.

International Representation. NTIA plays a critical role in developing strategy and representing the USG in international negotiations, standard setting, and diplomacy efforts. It is in these gatherings that governments and other stakeholders advance policy approaches that will determine how open the global digital economy will be to American products, services, and ideas. NTIA advocates for bilateral, multistakeholder, multilateral and regional adoption of policies that encourage an open Internet; promote market liberalization; and stimulate economic development and promotion of communications technology interests. NTIA participates in a wide variety of international fora to ensure that they maintain a central focus on innovation and economic growth and preserve the multistakeholder approach to Internet policymaking. NTIA requested a small funding increase, which is critical for NTIA to ensure that harmful standards and policies are not adopted by the International Telecommunications Union that would negatively impact industry and the interests of the U.S.

Trade Negotiations. NTIA provides policy and technical support to the Department, United States Trade Representative (USTR), and other federal agencies to ensure that any U.S. free trade agreement[s], existing or under development, supports the Administration's position regarding communications, digital commerce services, and the free flow of information across borders. NTIA's continued participation in these efforts will contribute to preserving and/or creating jobs for Americans and rejuvenating the domestic economy. NTIA will increase its participation in Department of Commerce-run bilateral commercial dialogues to improve understanding with counterpart trade and economics (not just communications) ministries.

Inter-Agency Work and Capacity Building. NTIA will continue to work with other agencies to develop implementation strategies for improved and continuous telecommunications and information development in key countries and regions (e.g., Africa, Central and Latin America, and the Middle East), through such foreign assistance efforts as the Telecommunications Leadership Program, and the U.S. Telecommunications Training Institute. We will work with the Office of the United States Trade Representative (USTR), other Commerce agencies, the State Department, and other federal agencies on policy approaches to telecommunications and information standards developments worldwide.

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Spectrum Management

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Spectrum Management	Pos./BA	26	8,342	31	9,975	31	10,973	37	24,981	6	14,008
	FTE/Obl	25	8,142	29	10,357	30	10,973	34	24,981	4	14,008
Total	Pos./BA	26	8,342	31	9,975	31	10,973	37	24,981	6	14,008
	FTE/Obl	25	8,142	29	10,357	30	10,973	34	24,981	4	14,008

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Activity: Spectrum Management

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Spectrum Management	Pos./BA	110	56,199	107	60,000	107	60,000	116	60,000	0	0
	FTE/Obl.	101	36,505	107	40,679	107	40,679	96	40,679	0	0
Total	Pos./BA	110	56,199	107	60,000	107	60,000	116	60,000	0	0
	FTE/Obl.	101	36,505	107	40,679	107	40,679	96	40,679	0	0

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)

Activity: Spectrum Management

Goal Statement

The Spectrum Management program ensures that electromagnetic spectrum is used efficiently and effectively to enable the Federal agencies to perform their missions, while supporting the commercial sector's development of next generation wireless services.

Base Program

NTIA carries out the President's authority to assign spectrum resources to radio stations belonging to and operated by the United States.¹ The Federal agencies rely on the radio spectrum to execute their congressionally mandated missions, ranging from national defense, homeland security, and law enforcement to ensuring aeronautical and marine safety, conducting space travel and scientific research, and accurately forecasting the weather. The agencies could not provide these vital government services without radio frequency assignments, which NTIA is responsible for managing. NTIA is also charged from time to time with making more spectrum available for licensed commercial use, creating billions of dollars in spectrum auction proceeds for the U.S. Treasury and ensuring U.S. leadership and economic growth driven by next-generation technologies. To support these spectrum auctions, NTIA works closely with the Federal Communications Commission (FCC) to coordinate spectrum use, identify, and reallocate spectrum bands to accommodate commercial wireless services, update spectrum policies, and develop long-range spectrum management plans. To execute these responsibilities and minimize costs, NTIA depends on significant collaboration with interested Federal agencies and key private-sector stakeholders.²

¹ NTIA Organization Act, as amended (47 USC 901 et. seq.)

² See links to Interdepartment Radio Advisory Committee (IRAC) at <https://www.ntia.doc.gov/page/interdepartment-radio-advisory-committee-irac> and Commerce Spectrum Management Advisory Committee (CSMAC) at <https://www.ntia.doc.gov/category/csmac>

Statement of Operating Objectives

In FY 2024, NTIA will continue to help ensure sufficient spectrum is available for Federal entities and will prioritize the following three activities: 1) conducting mission-essential functions to manage Federal spectrum resources; 2) supporting growing demand for spectrum in the commercial wireless industry, including through facilitating the efficient and effective use of Federal spectrum; and 3) coordinating critical national and international spectrum issues that impact U.S. businesses, consumers, and government agencies.

To accomplish its essential functions, NTIA will ensure that Federal agencies have sufficient access to spectrum resources needed to conduct current and future mission-critical activities. NTIA will achieve these three key outcomes: 1) certify approximately 300 spectrum-dependent systems required to support national security, emergency communications, and important Federal scientific endeavors; 2) process over 100,000 radio frequency assignments to authorize Federal wireless systems to operate when and where they are needed; and 3) respond during disasters to ensure continuity of critical state, territorial, local, and Federal spectrum operations. In support of growing demand for commercial wireless spectrum, NTIA will lead the efforts to find additional spectrum to support the deployment of innovative technologies that contribute billions of dollars towards America's economic prosperity and global technology leadership. For example, through tremendous analysis and effort, NTIA in early FY 2021 identified 100 megahertz of mid-band spectrum (3450-3550 MHz) that the FCC auctioned during FY 2022.

Internationally, NTIA will lead the Federal agencies in preparations to advance U.S. policy positions slated for the next International Telecommunication Union's World Radiocommunication Conference (WRC) agenda, scheduled to be held in 2024. Concurrently, NTIA will lead the implementation of changes to the U.S. regulations resulting from the WRC, the treaty- status forum that establishes radiocommunication regulations for global and regional operations in space and on earth. In other international efforts, NTIA will coordinate critical spectrum issues along the Canadian and Mexican borders, with the goal of preventing harmful interference under applicable treaties, agreements, and arrangements. NTIA will also coordinate hundreds of satellite actions with foreign governments and domestic operators to bring these systems into use and to improve the global competitiveness of the U.S. space sector.

Explanation and Justification

The Federal agencies could not provide their vital government services without radio frequency assignments and without NTIA's management of these scarce spectrum resources. At the same time, there is tremendous growth in demand for wireless spectrum by consumers, businesses, and government agencies. According to the recent Cisco Annual Internet Report, there will be 29.3 billion networked devices by 2024, up from 18.4 billion in 2018. Most of these will be wireless devices relying upon access to spectrum. Our nation's economic prosperity depends on innovative technologies and commercial wireless services gaining access to more spectrum.

Exhibit 12

		2022 Actual		2023 Enacted		2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Spectrum Management	Pos./BA	26	\$8,342	31	\$9,975	31	\$10,973
	FTE/Obl.	25	8,142	29	10,357	30	10,973

As part of its FY 2024 base resources, NTIA will accomplish the following activities, as outlined below.

NTIA conducts day-to-day spectrum management operations to authorize agency requests for radio frequency assignments and to certify agency spectrum-dependent equipment including those supporting national security and emergency communications. These assignment and certification actions require expert electromagnetic compatibility evaluations to ensure the equipment, when deployed, does not cause interference during operations. NTIA also conducts spectrum engineering studies and technical analyses to make decisions regarding frequency assignments, system certifications, spectrum sharing, interference resolution, and Federal technical standards.

NTIA conducts domestic spectrum activities that include developing, advocating, and implementing spectrum policies that expand spectrum access and improve efficiency across the Federal Government. This involves responding to proposed spectrum legislation, Congressional inquiries, and dozens of new and ongoing FCC proceedings. NTIA also provides outreach to public and private stakeholders, including spectrum training courses and seminars for U.S. and foreign spectrum managers. To inform policymaking, NTIA will conduct its annual symposium at which a wide range of subject matter experts will discuss innovations, ideas, and issues in Federal spectrum policy and management. NTIA will continue to administer and conduct the Technical Panel activities, which include the review and approval of agency transition plans and spectrum pipeline plans needed to reallocate and auction spectrum to accommodate commercial access. NTIA will also continue to execute its responsibilities to ensure commercial licensees have timely access to Federal spectrum bands auctioned by the FCC and that agencies spend Spectrum Relocation Fund transfers in accordance with their approved transition plans.

NTIA conducts international spectrum policy activities to develop positions and promote U.S. interests in international bodies dealing with radio regulations and other spectrum issues. This includes representing Federal interests at international forums such as the WRC, regional meetings, and other specialized agencies of the United Nations (e.g., the International Civil Aviation Organization). NTIA is also responsible for leading all coordination and registration for Federal satellite systems to provide protection of global satellite services from harmful interference and safeguard orbital slots for U.S. satellite systems. In addition, NTIA coordinates Federal intellectual property, trade, and technical standards to address the most pressing issues in the digital commerce and Internet economy, including the areas of online speech and content moderation, privacy, and 5G and next generation communications.

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGES FOR 2024
(Dollar amounts in thousands)**

		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Spectrum Management	Pos./BA	31	\$10,973	37	\$24,981	6	\$14,008
	FTE/Ob.	30	10,973	34	24,981	4	14,008

Informing Incumbent Capability (+\$14,008, 4 FTE/6 Positions)

The Budget requests funding to create an Incumbent Informing Capability (IIC) to assist the telecommunications industry, commercial markets, and Federal government with sharing increasing amounts of radio frequency spectrum to help protect U.S. business competitiveness and help ensure both America’s economic and national security. The telecommunications industry and wireless broadband are primary drivers of our Nation’s prosperity, and they require access to increasing amounts of radio frequency spectrum, much of which is already in use supporting critical federal functions. To protect the competitiveness of U.S. businesses in 5G and to ensure both America’s economic and national security, NTIA has a responsibility and requirement to find new and innovative ways to open up spectrum access for commercial applications. IIC is a mechanism for dynamically sharing spectrum in a given band that would enable managing interference between “incumbent” Federal users and “new entrants” (either non-Federal or Federal users) in the time domain in a manner that is not possible today with our current capabilities.

Funding in FY 2024 would enable NTIA to stand up an IIC Project Management Office (PMO) to oversee the development of an incumbent informing system that will fuel a parallel development by industry that has the potential to significantly improve spectrum sharing, thereby allowing more efficient use of the spectrum and expanding access to critical spectrum for both Federal and non-Federal users. This initial investment of \$14 million and 6 positions for the first year of a five-year program provides for formal project initiation through the development of acquisition plans and documentation needed for project governance, planning and coordination of spectrum policy changes needed to expand spectrum access, and information technology planning for future spectrum-sharing automation.

Exhibit 13

Performance Measures:	2024	2025	2026	2027	2028
% of program established, including acquisition documentation, hiring, purchasing necessary, services and software, and training staff.	70%	20%	10%	0%	0%
% of IIC capability established, including information technology capabilities, system information, interfaces, and training program(s)	5%	20%	25%	25%	25%

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGE PERSONNEL DETAIL

Activity: Spectrum Management
Program Change: Informing Incumbent Capability (IIC)

<u>Title</u>		<u>Grade</u>	<u>Number</u>	<u>Annual Salary</u>	<u>Total Salaries</u>
IIC Program Manager		15	1	\$155,700	\$155,700
IIC Technical Lead/System Engineer		14	1	132,368	132,368
IIC Lead Testing		14	2	132,368	264,736
IIC Information System Security Lead		13	1	112,015	112,015
IIC Telecom Specialist		11	1	78,592	78,592
Subtotal			<u>6</u>		<u>743,411</u>
Less Lapse	25%		<u>(2)</u>		<u>(185,853)</u>
Total full-time permanent FTE			4		557,558
2024 Pay Adjustment	5.2%				<u>28,993</u>
Total					<u>586,551</u>

Personnel Data

Full-Time Equivalent Employment:

Full-time permanent	4
Other than full-time permanent	<u>0</u>
Total	4

Authorized Positions:

Full-time permanent	6
Other than full-time permanent	<u>0</u>
Total	6

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Spectrum Management
PROGRAM CHANGE DETAIL BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Spectrum Management

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$2,711	\$4,361	\$4,615	\$5,194	\$579
11.3 Other than full-time permanent	0	13	13	13	0
11.5 Other personnel compensation	75	104	109	119	10
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	2,786	4,478	4,737	5,326	589
12.1 Civilian personnel benefits	965	1,443	1,529	1,703	174
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	1	54	56	97	41
22 Transportation of things	0	1	1	2	1
23.1 Rental payments to GSA	0	904	918	918	0
23.2 Rental payments to others	366	265	265	337	72
23.3 Commun., util., and misc. charges	87	42	44	48	4
24 Printing and reproduction	1	1	1	4	3
25.1 Advisory and assistance services	0	357	394	3,444	3,050
25.2 Other services from non-Federal sources	1,726	1,034	1,034	1,659	625
25.3 Other goods and services from Federal sources	923	972	1,554	1,747	193
25.4 Operations and maintenance of facilities	0	0	2	2	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	267	267	9,279	9,012
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	18	22	23	26	3
31 Equipment	382	135	148	389	241
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	7,255	9,975	10,973	24,981	14,008
Less prior year recoveries	0	0	0	0	0
Less prior year unobligated balance	0	0	0	0	0
Total Budget Authority	7,255	9,975	10,973	24,981	14,008

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Advanced Communications Research

Line Item		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Advanced Communications Research	Pos./BA	39	12,378	43	13,893	43	15,172	60	21,768	17	6,596
	FTE/Obl	29	12,609	31	14,461	31	15,172	44	21,768	13	6,596
Total	Pos./BA	39	12,378	43	13,893	43	15,172	60	21,768	17	6,596
	FTE/Obl	29	12,609	31	14,461	31	15,172	44	21,768	13	6,596

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Activity: Advanced Communications Research

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Advanced Communications Research	Pos./BA	48	51,882	57	60,000	57	60,000	57	60,000	0	0
	FTE/Obl.	37	19,180	50	20,000	50	20,000	50	20,000	0	0
Total	Pos./BA	48	51,882	57	60,000	57	60,000	57	60,000	0	0
	FTE/Obl.	37	19,180	50	20,000	50	20,000	50	20,000	0	0

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)

Activity: Advanced Communications Research

Goal Statement

Through cutting-edge research and engineering, the Advanced Communications Research program advances the nation's goals to discover and deploy technologically advanced communication solutions to use and share spectrum more efficiently and effectively without harmful interference.

Base Program

The Institute for Telecommunication Sciences (ITS), NTIA's research facility in Boulder, Colorado, is one of the world's leading telecommunications research laboratories. ITS research informs spectrum policy; proposes solutions to emerging telecommunications issues; and provides critical technical input regarding how spectrum-dependent systems, such as radars and cellphones, interact. ITS partners with other federal agencies, industry, and academia to collaborate on solving critical telecommunications problems. Through its independent, unbiased technical analyses, ITS serves as a trusted agent, working to balance the goals of protecting mission critical federal telecommunication systems from harmful interference while promoting commercial industries' ability to innovate and deploy advanced communication technologies. Towards these objectives, ITS researches new and innovative approaches to spectrum sharing, interference protection, and the interaction of communication equipment, systems, and services. ITS also provides key technical leadership for the U.S. Government on technology and spectrum issues in domestic and international telecommunications standards bodies.

Statement of Operating Objectives

ITS has identified three core technical research and engineering priority areas in FY 2024 that (1) promote efficient spectrum access and spectrum sharing; (2) inform policy development to stimulate US industry success in 5G and beyond communications by informing NTIA's policy making role through standards development and test and evaluation; and (3) modernize and maintain research facilities and equipment.¹

Promote efficient spectrum access and spectrum sharing. In an accelerating wireless world, spectrum is a critically important, scarce resource. Different communication systems are now required to share spectrum, meaning that they must operate using the same radio frequencies.

¹ More detailed information on ITS's research can be found on the website at <https://www.its.blrdoc.gov/>

These sharing arrangements must take place without the systems interfering with each other's operations. ITS conducts critically important research into reliable spectrum access and dynamic, interference-free spectrum sharing. The ITS research portfolio is designed to enable and improve spectrum access and sharing by continuously improving our understanding of radio frequency signals: how radio waves behave in different environments; how bandwidth and coverage vary with frequency; how much usage is really occurring at different frequencies; and how different spectrum-dependent systems can co-exist near each other. To this end, in FY 2024, ITS will perform extensive measurement validation and verification of the troposcatter, terrain diffraction, and clutter propagation models. These measurement campaigns will produce high quality real-world data sets with modern measurement equipment and techniques, providing objective ground truth against which to evaluate propagation models. Validated models will then be provided to the propagation and spectrum community through releases to the open-source ITS Propagation Library, while the evaluation datasets will later be made public to support additional collaboration between ITS and other research organizations and government agencies, in addition to supporting US government Open Data initiatives.

Inform policy development to stimulate U.S. industry success in 5G. In FY 2024, ITS will conduct research that supports the deployment of new and innovative telecommunications technologies to inform NTIA's policy making role as it relates to next generation information and communications technologies such as 5G. ITS will continue to provide unbiased research in support of improved spectrum efficiency and increased spectrum sharing among continuously evolving technologies, promoting balanced consideration of commercial and federal needs. Additionally, ITS will continue to represent emerging U.S. interests through targeted technical expertise and contributions to influence development and negotiation of national and international standards that support an open and globally competitive telecommunications marketplace.

Modernize and maintain research facilities and equipment. In FY 2024, ITS will maintain the ITS research facility in Boulder, Colorado, and upgrade research equipment to solve complex spectrum sharing problems as they evolve in response to new technologies. ITS owns and maintains the Table Mountain Field Site and Radio Quiet Zone, which is an 1,800-acre, open-air test location, that is the only Radio Quiet Zone available for research and development of new spectrum-dependent technologies. Table Mountain is protected by Federal and state law to prevent the transmissions of powerful signals over the site. The site is used by multiple federal agencies and industry partners to perform fundamental research into the nature, interaction, and performance of spectrum-dependent devices, systems, and services. Other federal agencies leverage ITS's research facilities and expert staff for advanced research to resolve their telecommunications issues. In FY 2024, NTIA will represent the Administration's policies to independent agencies, including the Federal Communications Commission (FCC) and the Federal Trade Commission (FTC) with the goal of advocating for market-based, consensus-driven policies versus overly burdensome regulation. For the education and promotion of the importance of a free and open Internet, NTIA will provide training in coordination with foreign assistance efforts, such as the Telecommunications Leadership Program and the U.S. Telecommunications Training Institute.

		<u>Explanation and Justification</u>					
		2022 Actual		2023 Enacted		2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Advanced Communications Research	Pos./BA	39	\$12,378	43	\$13,893	43	\$15,172
	FTE/Obl.	29	12,609	31	14,461	31	15,172

NTIA will conduct research in areas of efficient spectrum access and spectrum sharing and other critical spectrum activities. The critical radio frequency measurement data NTIA gathers will provide ITS, private partners, and the public sectors with data modeling tools that will be used to deploy new telecommunication networks and services and increase commercial access to new shared radio bands. The Radio Spectrum Measurement Sciences' spectrum monitoring capabilities will be expanded to monitor additional swaths of spectrum usage and will continue to provide the FCC, DoD, and other federal agencies increased insight into the occupancy of the spectrum to inform planning, efficient management, and enforcement. To keep pace with 5G research and development, which is one of the fastest growing and most impactful communications technologies now and into the future, NTIA will continue to adapt and expand the next-generation communications laboratory and direct subject matter expertise on future information and communications technologies to give the US a powerful voice in the global development and standardization of the further evolution of information and communications technologies. These efforts will help ensure NTIA has sufficient engineering expertise to inform its policy making role in working to ensure US industry success in the global 5G and beyond information and communications technologies market.

NTIA will conduct upgrades on the modernization and maintenance of research facilities and equipment. For the Table Mountain Field Site and Radio Quiet Zone, NTIA will continue to manage, operate, and maintain this critical, telecommunication research site. ITS will continue the renovation of the laboratory buildings at the site and in FY2024 three buildings will be modernized, including two large dish antennas. Telecommunications is one of the most rapidly evolving sectors of the economy with new generations of equipment being released annually or more frequently. To keep pace with each new generation of technology, NTIA must continually invest in new measurement equipment to meet the needs of greater sensitivity, increased resolution, higher frequencies, and wider bandwidths.

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGES FOR 2024
(Dollar amounts in thousands)**

		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Advanced Communications	Pos./BA	43	\$15,172	60	\$21,768	17	\$6,596
Research	FTE/Ob.	31	15,172	44	21,768	13	6,596

Spectrum Innovation Research Incubator (+\$6,596, 13 FTE/17 Positions)

NTIA’s coordination of Federal spectrum use across agencies supports hundreds of billions of dollars in economic activity, millions of American jobs, and continued innovation that leads that world. Currently, evidence-based interagency spectrum coordination occurs well after feasibility studies are conducted and auctions are run. The result is a far more conservative approach to spectrum repurposing that leaves tremendous economic benefits unrealized. A “whole of government approach” is necessary to strengthen spectrum management processes and to fund evidence-based engineering efforts, such as prioritizing long term spectrum planning and establishing early planning coordination protocols so that issues are identified and resolved deliberately and well in advance of a spectrum allocation. NTIA proposed to develop and implement a Spectrum Innovation Research Incubator (SIRI) to accelerate deployment of commercial wireless technologies by proactively performing engineering studies and analyses years in advance of proposed rulemakings to provide accurate, open, and trusted data to facilitate feasibility studies. These efforts will include research to assist in developing prioritized spectrum bands, working with Federal and non-Federal users, and prospectively developing testing and coordination programs, which will utilize in lab and in-field testing to understand interference and coordination issues of a particular band. The initiative will be coordinated and prioritized jointly by the Institute for Telecommunications Science and the Office of Spectrum Management to ensure NTIA addresses the most critical Federal spectrum research priorities for any given year. In FY 2024, this initiative would enable NTIA to provide engineering studies and analyses to identify spectrum in the 7-16 GHz range that can support 5G and beyond technologies and convene commercial and government technical stakeholders to inform feasibility analyses and the eventual rulemaking process.

Performance Measures:	2024	2025	2026	2027	2028
% of Spectrum Innovation Research Incubator Investments completed	10%	25%	50%	75%	100%

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGE PERSONNEL DETAIL**

**Activity: Advanced Communications Research
Program Change: Spectrum Innovation Research Incubator (SIRI)**

<u>Title</u>		<u>Grade</u>	<u>Number</u>	<u>Annual Salary</u>	<u>Total Salaries</u>
Electronic Engineers		ZP 4	4	\$160,000	\$640,000
Electronic Engineers		ZP 4	8	114,000	912,000
Electronic Engineers		ZP 2	1	85,000	85,000
Mathematician		ZP 4	1	135,000	135,000
Statisticians		ZP 4	2	137,000	274,000
Technical Writer		ZP 3	1	120,000	120,000
Subtotal			<u>17</u>		<u>2,166,000</u>
Less Lapse	25%		<u>(4)</u>		<u>(541,500)</u>
Total full-time permanent FTE			13		1,624,500
2024 Pay Adjustment	5.2%				<u>84,474</u>
Total					1,708,974

Personnel Data

Full-Time Equivalent Employment:

Full-time permanent	13
Other than full-time permanent	<u>0</u>
Total	13

Authorized Positions:

Full-time permanent	17
Other than full-time permanent	<u>0</u>
Total	17

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
ADVANCED COMMUNICATIONS RESEARCH
PROGRAM CHANGE DETAIL BY OBJECT CLASS
 (Dollar amounts in thousands)

Activity: Advanced Communications Research

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$4,123	\$4,201	\$4,494	\$6,182	\$1,688
11.3 Other than full-time permanent	125	41	43	43	0
11.5 Other personnel compensation	218	104	111	191	80
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	4,466	4,346	4,648	6,416	1,768
12.1 Civilian personnel benefits	1,213	1,406	1,499	2,196	697
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	41	125	128	148	20
22 Transportation of things	3	2	2	2	0
23.1 Rental payments to GSA	115	71	71	71	0
23.2 Rental payments to others	1	63	63	63	0
23.3 Commun., util., and misc. charges	51	51	53	73	20
24 Printing and reproduction	0	1	1	1	0
25.1 Advisory and assistance services	1,121	361	414	414	0
25.2 Other services from non-Federal sources	1,332	1,547	1,547	1,984	437
25.3 Other goods and services from Federal sources	1,249	2,096	2,904	6,058	3,154
25.4 Operations and maintenance of facilities	0	797	797	797	0
25.5 Research and development contracts	0	40	40	40	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	294	294	294	0
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	183	34	34	34	0
31 Equipment	2,834	2,659	2,677	3,177	500
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	12,609	13,893	15,172	21,768	6,596
Less prior year recoveries	0	0	0	0	0
Less prior year unobligated balance	0	0	0	0	0
Total Budget Authority	12,609	13,893	15,172	21,768	6,596

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Broadband Programs

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Broadband Programs	Pos./BA	29	16,985	40	19,485	40	20,786	81	40,905	41	20,119
	FTE/Obl	29	22,970	34	20,685	35	20,786	76	40,905	41	20,119
Total	Pos./BA	29	16,985	40	19,485	40	20,786	81	40,905	41	20,119
	FTE/Obl	29	22,970	34	20,685	35	20,786	76	40,905	41	20,119

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)**

Activity: Broadband Programs

Goal Statement

The Broadband Program promotes the expansion of broadband access and use across America by facilitating and overseeing investments in critical infrastructure deployment and digital inclusion that will help attract new jobs, promote economic growth, and encourage increased innovation.

Base Program

The Consolidated Appropriations Act, 2021, and the ACCESS BROADBAND Act, established the Office of Internet Connectivity and Growth (OICG) at NTIA. All of NTIA's broadband programs are housed in OICG including the Office of Minority Broadband Initiatives (OMBI), the National Broadband Availability Map (NBAM), all of its State and interagency coordination functions, including support for the Broadband Interagency Coordination Agreement (BICA), as well as its BroadbandUSA technical assistance programs that provide community outreach and support for state, tribal, and local leaders on the breadth of issues related to the digital divide in our country.

ACCESS Broadband Act also charged OICG with tracking in a centralized database, Federal and state broadband programs for the construction of broadband infrastructure and programs supporting the adoption and use of broadband services. OICG publishes an annual report including the number of residents of the United States that received broadband as result of Federal broadband support programs, a description of Americans who received support for broadband services and related equipment and training, as well as the economic impact of such broadband deployment efforts on local economies, including any effect on small businesses or jobs.

OICG will continue the BroadbandUSA outreach activities with states, localities, and tribal organizations to improve broadband deployment and digital inclusion efforts, hold regional and virtual workshops to share best practices and effective strategies for promoting broadband access and adoption, develop education and training tools to support local strategies to expand broadband access and adoption.

Through the Office of Minority Broadband Initiatives, NTIA will continue to collaborate with Federal agencies, state, local and tribal governments, Historically Black Colleges and Universities, Tribal Colleges and Universities, Minority-Serving Institutions, and any interested stakeholders to promote initiatives related to expanding connectivity and digital opportunities for anchor communities.

Statement of Operating Objectives

NTIA will accomplish its required objectives related to ACCESS BROADBAND and its Broadband Interagency Coordination Agreement efforts to promote greater coordination and consistency across Federal programs to better target broadband investments to unserved areas and to streamline the application process for broadband programs. NTIA will also prepare a report to Congress identifying the number of residents of the United States that received broadband as result of Federal broadband support programs, a description of Americans who received support for broadband services and related equipment and training, as well as the economic impact of such broadband deployment efforts on local economies, including any effect on small businesses or jobs.

NTIA will support its broadband program administration and support to external stakeholders through its broadband availability data mapping initiative. NTIA will accomplish the following items: 1) update geographic information systems (GIS) and geo-analytical systems, necessary to support the base program; 2) integrate, visualize, and analyze broadband availability data from participating states; 3) integrate, visualize, and analyze broadband availability data from broadband providers; 4) integrate the new Broadband DATA Act granular data on broadband availability; and 5) integrate updated broadband planning data from other Federal agencies. These important improvements will enhance NTIA's data collection and analytic capabilities to better support policymaking and investment decisions. These mapping capabilities will support NTIA's understanding of broadband availability, other Federal agency broadband investments, and support informed broadband program investments and decision-making.

NTIA will carry out the responsibilities if the Office of Minority Broadband Initiatives to collaborate with Federal agencies, state, local, and tribal governments, Historically Black Colleges and Universities, Tribal Colleges and Universities, Minority-Serving Institutions, and any interested stakeholders to help navigate Federal funding opportunities and promote broadband Internet access and adoption,

digital literacy, professional development opportunities, and deployment of advanced technologies in anchor communities that serve minority populations.

NTIA’s BroadbandUSA program will provide stakeholder technical assistance on broadband planning, deployment, and digital inclusion/equity efforts, in particular through its administration and facilitation of key stakeholder cohorts, including the State Broadband Leaders Network, Digital Equity Leaders Network, and Tribal Broadband Leaders Network to promote stakeholder collaboration and knowledge sharing. NTIA will convene stakeholders virtually and through in-person meetings and develop technical assistance materials based on stakeholder needs.

Explanation and Justification

Through its BroadbandUSA program, NTIA provides technical assistance to tribal, state, and local communities seeking to expand connectivity and meet their economic development goals. BroadbandUSA’s work will support stakeholders with technical, solution-neutral guidance and tools that help them engage in more effective and persuasive discussions with broadband partners and providers. BroadbandUSA staff will continue to lead workshops and events for communities and stakeholder cohorts to facilitate public-private partnerships, explore a variety of infrastructure and digital inclusion funding opportunities, provide fresh perspectives for digital inclusion/equity, and foster innovation for Internet connectivity and use. NTIA will engage with stakeholders within industry, state, regional, and local entities to further common goals of increasing broadband access, particularly in rural areas. BroadbandUSA will work closely with the organizations at all levels of government to assist in removing barriers to deployment, facilitating and developing information, and increasing knowledge on broadband.

		2022 Actual		2023 Enacted		2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Broadband Programs	Pos./BA	29	\$16,985	40	\$19,485	40	\$20,786
	FTE/Obl.	29	22,970	34	20,685	35	20,786

Through its Office of Minority Broadband Initiatives, NTIA continues to expand NTIA's minority stakeholder engagement, principally by leveraging NTIA's good work with Historically Black Colleges and Universities (HBCUs) and Tribal Colleges and Universities (TCUs). In particular and in line with the Administration's imperative to promote rural broadband deployment, 5G deployment, economic competitiveness, and digital inclusion/equity, NTIA seeks to increase HBCU/TCU leadership participation in relevant broadband organizations, increase their outreach and participation in Federal agency broadband programs, and ensure their inclusion in the broadband deployment stakeholder ecosystems and grant opportunities.

NTIA will continue to build upon and leverage its broadband mapping and data capabilities, updating and maintaining the more than 380 data layers/inputs to support its base programs and its grant programs. NTIA will continue to integrate new public and private datasets, improve technical capabilities, and improve the visualization, analytical, and other features into its mapping capabilities and platform. NTIA will evolve its broadband mapping platform to identify areas that need broadband infrastructure investments at a more granular level, leveraging the location-based broadband availability information from the new FCC maps required in the Broadband DATA Act. These tools support NTIA's sharing of its planned and awarded investments with Federal partners and support its review of other proposed or awarded Federal investments to prevent the duplication of Federal funding and support the development and sharing of tools with the public on broadband availability.

NTIA will continue to support its Federal broadband interagency coordination role, codified in the ACCESS Broadband Act and Broadband Interagency Coordination Agreement (BICA), including updating the centralized database of Federal and state broadband programs (published annually on the BroadbandUSA website) and developing the annual report to identify and illustrate all Federal funding supporting broadband efforts.

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGES FOR 2024
(Dollar amounts in thousands)**

		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Broadband Programs	Pos./BA	40	\$20,786	81	\$40,905	41	\$20,119
	FTE/Ob.	35	20,786	76	40,905	41	20,119

Grant Monitoring and Oversight (+\$20,119, 41 FTE/41 Positions)

The Budget requests an increase in the Broadband Programs PPA to conduct oversight and monitoring of broadband grants. NTIA has received approximately \$50 billion to implement programs that expand broadband access and connectivity to states, territories, and areas of the United States that lack access, including rural areas and tribal lands. The programs will build high-speed Internet infrastructure, where needed, fund programs to increase the adoption and use of high-speed Internet, and ensure people and communities have the skills, technology, and capacity needed to reap the full benefits of our digital economy. NTIA will implement these programs through grant programs funded in the Infrastructure Investment and Jobs Act of 2022 (IIJA) and Consolidated Appropriations Act, 2021, which include the following programs:

- The Broadband Equity, Access, and Deployment program (\$42.5 billion) will expand broadband access and connectivity through formula grants to State and territories for broadband infrastructure projects focused on unserved and then underserved areas to bridge the digital divide.
- The Digital Equity program (\$2.8 billion), facilitated through three distinct grant programs with multiple years of funding, will promote the achievement of digital equity, support digital inclusion activities, and build capacity for efforts by through State and territory formula grants and through competitive grants to various eligible entities. These funds will support the adoption and meaningful use of broadband and focus on specific, statutorily defined, covered populations that have been left behind in the increasingly digital world.
- The Middle Mile Deployment program (\$1.0 billion) will expand and extend middle mile infrastructure to connect to last mile networks and promote the reduction in costs to serve the last mile while increasing network resiliency in unserved and underserved areas.

Exhibit 13

- The Connecting Minority Communities (CMC) program (\$285 million) will fund Historically Black Colleges and Universities (HBCUs), Tribal Colleges and Universities (TCUs), and Minority-Serving Institutions (MSIs) to promote the broadband use and adoption through the purchase of broadband internet access service and eligible equipment or to hire and train information technology personnel.
- The Tribal Broadband Connectivity program (\$3.0 billion) will expand broadband infrastructure and promote access to and adoption of broadband service to underserved Tribal areas and communities in the United States. These grants will support telehealth, distance learning, broadband affordability, and digital inclusion to tribal communities.
- The Broadband Infrastructure Program (\$288 million) will expand broadband infrastructure to unserved areas in the United States, in particular to rural areas.

Currently, up to 2 percent of the appropriated IIJA funds can be allocated for grants administration. This level of administrative funding will only permit NTIA to complete the award of the grants but would not provide sufficient funding beginning in FY 2024 to conduct appropriate oversight of grants over the life of all the programs. To ensure management of the full grant lifecycle for all the programs, additional funding for administrative expenses is required to provide oversight of and technical assistance to grant recipients to ensure the success of awarded projects and proper monitoring of grants to protect from waste, fraud, and abuse. More specifically, the increase will allow NTIA to retain positions hired during the stand-up phase of the grant program to continue implementation of the program and other critical activities, such as financial management and performance oversight; grants compliance and management; project implementation; risk management including desk reviews and site visits; technical assistance to guide grantee performance; environmental and historic preservation reviews and compliance; grant closeout; and protection of the Federal interest period in grants upon closeout.

Additionally, the Budget proposes a legislative change that would make available up to 5 percent of amounts in the IIJA broadband programs and provide transfer authority between broadband programs for conducting oversight and monitoring of grants. The legislative change, coupled with the \$20.1 million increase, will allow NTIA to cover projected, annual deficits and address the timing of funds availability for administrative expenses that varies based on the grant life cycle. Both the proposed legislative change and initiative are essential to the success of the broadband grant programs. The ability to achieve these program goals will be placed at significant risk if sufficient resources are not available for adequate oversight and technical assistance. It is vital to continue these efforts that help expand high-speed Internet access and use across the Nation and, as a result, will allow for improved education experiences, stronger healthcare system, and an empowering economy.

Performance Measures:	2024	2025	2026	2027	2028
Number of Performance Reports/Reviews for Broadband Grant Programs	1,008	872	812	812	754

**Department of Commerce
National Telecommunications and information Administration
Salaries and Expenses
PROGRAM CHANGE PERSONNEL DETAIL**

Activity: Broadband Programs
Program Change: Grant Monitoring and Oversight

Full-time permanent

<u>Title</u>	<u>Grade</u>	<u>Number</u>	<u>Annual Salary</u>	<u>Total Salaries</u>
Director	15	2	\$160,889	\$321,778
Broadband Program Specialist	15	5	160,889	804,445
Telecommunications Policy Specialist	14	4	145,604	582,416
Environmental Specialist	14	1	145,604	145,604
Broadband Program Specialist	14	8	145,604	1,164,832
Broadband Program Specialist	13	14	123,216	1,725,024
Broadband Program Specialist	12	3	97,339	292,017
Management and Program Analyst	12	3	97,339	292,017
Administrative Specialist	11	1	78,592	78,592
Subtotal		41		5,406,725
Less lapse	0%	0		0
Total full-time permanent (FTE)		41		5,406,725
2024 Pay Adjustment	5.2%			281,150
				5,687,875

Personnel Data Summary

Full-Time Equivalent Employment (FTE)

Full-time permanent	41
Other	0
Total FTE	41

Authorized Positions

Full-time permanent	41
Other	0
Total Positions	41

Department of Commerce
National Telecommunications and Information Administration
PROGRAM CHANGE DETAIL BY OBJECT CLASS
(Direct Obligations amounts in thousands)

Activity: Broadband Programs
Program Change: Grant Monitoring and Oversight

	Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1	Full-time permanent	\$3,964	\$4,595	\$4,935	\$10,623	\$5,688
11.3	Other than full-time permanent	151	18	19	19	0
11.5	Other personnel compensation	140	110	116	212	96
11.8	Special personnel services payments	0	0	0	0	0
11.9	Total personnel compensation	4,255	4,723	5,070	10,854	5,784
12.1	Civilian personnel benefits	1,358	1,522	1,630	3,274	1,644
13	Benefits for former personnel	0	0	0	0	0
21	Travel and transportation of persons	126	33	37	640	603
22	Transportation of things	1	1	1	35	34
23.1	Rental payments to GSA	308	357	375	375	0
23.2	Rental payments to others	223	25	25	421	396
23.3	Communications, utilities, misc. charges	181	58	61	193	132
24	Printing and reproduction	2	1	2	33	31
25.1	Advisory and assistance services	6,130	6,150	4,998	7,487	2,489
25.2	Other services	2,995	3,310	5,309	10,376	5,067
25.3	Other goods and services from Federal sources	5,726	3,420	2,172	5,541	3,369
25.4	Operation and maintenance of facilities	0	0	2	2	0
25.5	Research and development contracts	0	0	0	0	0
25.6	Medical care	0	0	0	0	0
25.7	Operation and maintenance of equipment	0	371	371	371	0
25.8	Subsistence and support of persons	0	0	0	0	0
26	Supplies and materials	38	17	18	123	105
31	Equipment	1,627	697	715	1,180	465
32	Lands and structures	0	0	0	0	0
33	Investments and loans	0	0	0	0	0
41	Grants, subsidies and contributions	0	0	0	0	0
42	Insurance claims and indemnities	0	0	0	0	0
43	Interest and dividends	0	0	0	0	0
44	Refunds	0	0	0	0	0
92	Contingency	0	0	0	0	0
99.9	Total obligations	22,970	20,685	20,786	40,905	20,119

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Public Safety Communications

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Public Safety Communications	Pos./BA	1	379	7	3,082	7	3,284	7	4,625	0	1,341
	FTE/Obl	1	325	7	3,439	7	3,284	7	4,625	0	1,341
Total	Pos./BA	1	379	7	3,082	7	3,284	7	4,625	0	1,341
	FTE/Obl	1	325	7	3,439	7	3,284	7	4,625	0	1,341

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Public Safety Communications

Goal Statement

NTIA's public safety communications program provides the critical leadership and support for the coordination, interoperability, improvement, and technical resources for our nation's public safety agencies in their adoption and implementation of advanced communications technologies.

Base Program

NTIA's public safety communications program will continue to serve the nation's emergency communications needs with policy support, training, technical assistance, and stakeholder engagement. NTIA is uniquely situated to support public safety agencies in their efforts to adopt and implement advanced communication technologies given NTIA's technical spectrum and public safety expertise. NTIA provides continued support for NG9-1-1 activities and responsibilities related to the First Responder Network Authority (FirstNet Authority).

Statement of Operating Objectives

NTIA supports the communication needs of public safety personnel at all levels of government with their Next Generation 9-1-1 (NG9-1-1) activities. NTIA serves as a key federal-level coordinator for public safety communications and works closely with other federal agencies, states, territories and local governments, public safety personnel at all levels of government, and equipment manufacturers to plan for and advance NG9-1-1 implementation. With this continued funding, NTIA will engage other federal agencies to advance regulatory, financial, and policy priorities for nationwide NG9-1-1 deployment. NTIA's activities will support the efforts of federal, state, local, and tribal public safety agencies to utilize cutting-edge NG9-1-1 technologies that can improve public safety responses and help save lives. In FY 2024, NTIA will focus on continued implementation of a Training and Technical Assistance Program for NG9-1-1.

- The Training and Technical Assistance (TTA) program will conduct work focused on assisting Emergency Communications Centers (ECCs) prepare for the deployment and implementation of (NG9-1-1).
- These activities will also address the GAO recommendations in GAO-18-252 on how federal agencies, including NTIA, should be supporting the state and local NG9-1-1 efforts.
- There are two offerings as part of the TTA program, an NG9-1-1 *Technology Assessment* offering, and an *NG9-1-1 Awareness Training* offering.

NG9-1-1 Technology Assessment and Report

- This program will address the current state of technological and operational capabilities of ECCs and how well are they poised to move into NG9-1-1.
- NTIA will collect information, conduct onsite interviews and data gathering, analyze that information based on existing standards and best practices, and incorporate broader public safety needs into a comprehensive report and proposed guidance for an ECC.

NG9-1-1 Awareness Training

- This offering will focus on training ECC leadership on the technical and operational impacts of properly defining and implementing true NG9-1-1. Among the topics this program will address are requirements for NG9-1-1 including:
 - Definitions and why they matter, and
 - How to craft acquisition documents and contracts that satisfy the operational needs of the agency, above and beyond high-level compliance with industry standards or a furtherance of outdated approaches to a next generation opportunity.
- In implementing this program, NTIA operates as an honest broker to provide advice on how to best prepare for NG9-1-1 and how to navigate the complex environment of NG9-1-1.

The public safety communications program is also designated within NTIA as the coordination point between NTIA and the First Responder Network Authority (FirstNet Authority) to carry out NTIA's statutory requirements under the Middle Class Tax Relief and Job Creation Act of 2012 (Act) and other delegated monitoring and oversight functions. The Act established the FirstNet Authority as an independent authority within NTIA and directed it to construct, operate, maintain, and improve a Nationwide Public Safety

Broadband Network, providing priority and preemptive communications services to first responders throughout the United States. The Act directed NTIA to perform specific statutory functions related to FirstNet and NTIA's Assistant Secretary has further delegated OPSC additional implementation monitoring activities. These are:

- **Fee Review and Approval:** On an annual basis, NTIA must, in accordance with the Act, review and approve the fees FirstNet Authority intends to collect from its contractor, AT&T, to ensure the fees are sufficient, but not exceed, the amount necessary to cover FirstNet's expenses as it carries out its duties under the Act.
- **FirstNet Authority Non-Permanent Board Member Appointments:** NTIA supports the Secretary in the appointment of 12 non-permanent Board members as required in the Act, including the solicitation and vetting of Board applicants to ensure Board's statutory composition is maintained.
- **FirstNet Authority Monitoring:** This program also facilitates a quarterly review cycle with the FirstNet Authority to ensure that the Department and NTIA have appropriate situational awareness of FirstNet's operational, financial, and capital investment activities. NTIA, in coordination with the FirstNet Authority, has developed and maintains Standard Operating Procedures regarding how the FirstNet Authority interrelates to NTIA and the Department as an independent authority within NTIA.

Explanation and Justification

NG9-1-1: For more than 50 years, 9-1-1 systems have served the needs of the public in emergencies. As communication technologies have evolved to include wireless phones, text and picture messaging, video chat, social media, and Voice over Internet Protocol (VoIP) devices, the 9-111 systems have not kept pace and are unable to accept information from these new communication methods. The future success of 9-1-1 in serving the public's needs will only be possible when our 9-1-1 call centers have transitioned from analog to an Internet Protocol (IP)-based 9-1-1 systems, commonly referred to as Next Generation 9-1-1 or NG9-1-1. The GAO's January 2018 report to Congress, GAO-18-252, recommended that the federal government could strength efforts to assist states.⁶

⁶ The GAO stated that "[w]hile deploying and operating 911 is the responsibility of entities at the state and local level, Federal agencies – including NHTSA (National Highway Transportation and Safety Administration), NTIA, FCC (the Federal Communications Commission), and DHS (U.S. Department of Homeland Security) – have responsibilities to support NG911 implementation, including through facilitating coordination activities among 911 stakeholders and administering Federal grants."

Exhibit 12

Line Item		2022 Actual		2023 Enacted		2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Public Safety Communications	Pos./BA	1	379	7	3,082	7	3,284
	FTE/Obl	1	325	7	3,439	7	3,284
Total	Pos./BA	1	379	7	3,082	7	3,284
	FTE/Obl	1	325	7	3,439	7	3,284

For public safety agencies, the transition to NG9-1-1 will be complex and challenging. In order to successfully make the transition to NG9-1-1, agencies at all levels will require information, training, planning, technical certainty, and coordination to leverage NG9-1-1 for first responders and those they serve. These activities also directly address the GAO recommendations in GAO-18-252 on how federal agencies, including NTIA, should be supporting the state and local NG9-1-1 efforts.⁷ The NG9-1-1 Training and Technical Assistance program positions stakeholders to take full advantage of opportunities to implement NG9-1-1 and it empowers stakeholders to seek and obtain the NG9-1-1 services that best serve their communities.

⁷ 47 U.S.C. § 902(b)(2), 47 U.S.C. § 942, 47 U.S.C. § 1413

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PROGRAM CHANGES FOR 2024
(Dollar amounts in thousands)**

		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Public Safety	Pos./BA	7	\$3,284	7	\$4,625	0	\$1,341
Communications	FTE/Ob.	7	3,284	7	4,625	0	1,341

Transition from Mandatory Accounts (+\$1,341, 0 FTE/0 Positions)

The FY 2024 Budget supports annualization of efforts begun in FY 2023 to transition statutory, delegated, and other key public safety communications activities from the 47 USC 1457: Public Safety Trust Fund mandatory accounts (which expired on September 30, 2022) to annual appropriations within NTIA’s Salaries and Expenses. These activities include conducting the annual FirstNet Authority fee review to ensure that FirstNet Authority is financially self-sustaining; leading the recruitment and vetting of 11 non-permanent FirstNet Authority Board members in FY 2024 on behalf of the Secretary; and shepherding the Department in monitoring FirstNet Authority activities. The current activities conducted by NTIA benefit the Department and public safety by ensuring that a high-visibility, high-risk program, such as the FirstNet Authority has sufficient monitoring that risks are elevated to Departmental Leadership and mitigated as needed. In addition, NTIA has developed strong program insight and credibility, both within the FirstNet Authority and the Department, to act as an advisor and to provide early awareness of potential challenges to the Department. In FY 2024, NTIA will continue to provide engagement, expertise, best practices, and coordination support necessary to help the Nation’s 9-1-1 systems to upgrade from analog to Internet Protocol (IP)-based systems with interoperability and multimedia capability, commonly referred to as Next Generation 9-1-1 (NG 9-1-1). Additionally, NTIA will develop a new NG 9-1-1 training program with the requested increase in FY 2024 funding to support the 9-1-1 community with the definitions, attributes, and planning necessary for NG 9-1-1. In FY 2024, NTIA will complete procurement activities to obtain assistance from a training vendor, develop the

Exhibit 13

NG 9-1-1 training curriculum, and pilot three NG 9-1-1 training classes before fully implementing the planned 50 NG 9-1-1 training sessions in FY 2025.

Performance Measures	2024	2025	2026	2027	2028
Number of NG 9-1-1 trainings conducted with increase	3	50	50	50	50
Number of 9-1-1 best practice presentations conducted without increase	4	4	4	4	4

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PUBLIC SAFETY COMMUNICATIONS
PROGRAM CHANGE DETAIL BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Public Safety Communications

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$199	\$1,034	\$1,077	\$1,077	\$0
11.3 Other than full-time permanent	1	0	0	0	0
11.5 Other personnel compensation	0	26	27	27	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	200	1,060	1,104	1,104	0
12.1 Civilian personnel benefits	63	344	358	358	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	6	63	63	63	0
22 Transportation of things	0	2	2	2	0
23.1 Rental payments to GSA	3	302	305	305	0
23.2 Rental payments to others	1	0	0	0	0
23.3 Commun., util., and misc. charges	0	1	1	1	0
24 Printing and reproduction	0	10	10	10	0
25.1 Advisory and assistance services	4	1,225	1,234	2,575	1,341
25.2 Other services from non-Federal sources	5	375	18	18	0
25.3 Other goods and services from Federal sources	37	42	172	172	0
25.4 Operations and maintenance of facilities	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	7	7	7	0
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	0	3	3	3	0
31 Equipment	6	5	7	7	0
99.9 Total Obligations	325	3,439	3,284	4,625	1,341
Less prior year recoveries	0	0	0	0	0
Less prior year unobligated balance	(308)	(357)	0	0	0
Unobligated balance, expiring	5	0	0	0	0
Unobligated balance, end of year	357	0	0	0	0
Total Budget Authority	379	3,082	3,284	4,625	1,341

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$16,348	\$19,719	\$21,224	\$29,208	\$7,984
11.3 Other than full-time permanent	537	356	374	374	0
11.5 Other personnel compensation	781	484	510	696	186
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	17,666	20,559	22,108	30,278	8,170
12.1 Civilian personnel benefits	5,496	6,636	7,125	9,640	2,515
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	383	677	690	1,354	664
22 Transportation of things	4	8	8	43	35
23.1 Rental payments to GSA	815	2,016	2,072	2,072	0
23.2 Rental payments to others	324	378	378	846	468
23.3 Commun., util., and misc. charges	396	207	220	376	156
24 Printing and reproduction	11	17	18	52	34
25.1 Advisory and assistance services	7,742	12,451	9,782	16,662	6,880
25.2 Other services from non-Federal sources	6,780	9,990	10,251	16,351	6,100
25.3 Other goods and services from Federal sources	9,368	9,812	9,007	15,723	6,716
25.4 Operations and maintenance of facilities	0	797	804	804	0
25.5 Research and development contracts	0	40	40	40	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	1,298	1,297	10,309	9,012
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	262	104	108	216	108
31 Equipment	4,899	3,623	3,693	4,899	1,206

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	289	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	54,435	68,613	67,601	109,665	42,064
Recoveries	(919)	0	0	0	0
Unobligated balance, start of year	(10,831)	(6,613)	0	0	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	6,613	0	0	0	0
Unobligated balance expiring	702	0	0	0	0
Total Budget Authority	50,000	62,000	67,601	109,665	42,064

Personnel Data

Full-Time equivalent Employment:

Full-time permanent	118	140	145	203	58
Other than full-time permanent	2	1	1	1	0
Total	120	141	146	204	58

Authorized Positions:

Full-time permanent	132	169	169	233	64
Other than full-time permanent	2	1	1	1	0
Total	134	170	170	234	64

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Domestic and International Policies
SELECT ACTIVITIES BY OBJECT CLASS

(Dollar amounts in thousands)

Activity: Domestic and International Policies

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$4,954	\$5,527	\$6,103	\$6,103	\$0
11.3 Other than full-time permanent	235	284	299	299	0
11.5 Other personnel compensation	132	140	147	147	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	5,321	5,951	6,549	6,549	0
12.1 Civilian personnel benefits	1,634	1,921	2,109	2,109	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	201	402	406	406	0
22 Transportation of things	0	2	2	2	0
23.1 Rental payments to GSA	335	382	403	403	0
23.2 Rental payments to others	52	25	25	25	0
23.3 Commun., util., and misc. charges	164	56	61	61	0
24 Printing and reproduction	2	4	4	4	0
25.1 Advisory and assistance services	214	3,789	2,742	2,742	0
25.2 Other services from non-Federal sources	1,164	3,343	2,343	2,343	0
25.3 Other goods and services from Federal sources	685	3,282	2,205	2,205	0
25.4 Operations and maintenance of facilities	0	0	3	3	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	359	358	358	0

Exhibit 16A

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	23	29	30	30	0
31 Equipment	305	146	146	146	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	289	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	10,389	19,691	17,386	17,386	0
Less prior year recoveries	(50)	0	0	0	0
Less prior year unobligated balance	(2,616)	(4,106)	0	0	0
Unobligated balance, expiring	87	0	0	0	0
Unobligated balance, end of year	4,106	0	0	0	0
Total Budget Authority	11,916	15,585	17,386	17,386	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	34	38	41	41	0
Other than full-time permanent	2	2	2	2	0
Total	36	40	43	43	0
Authorized Positions:					
Full-time permanent	37	45	45	45	0
Other than full-time permanent	2	4	4	4	0
Total	39	49	49	49	0

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Spectrum Management
SELECT ACTIVITIES BY OBJECT CLASS

(Dollar amounts in thousands)

Activity: Spectrum Management

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$3,108	\$4,361	\$4,615	\$5,202	\$587
11.3 Other than full-time permanent	25	13	13	13	0
11.5 Other personnel compensation	291	104	109	119	10
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	3,424	4,478	4,737	4,737	597
12.1 Civilian personnel benefits	1,228	1,443	1,529	1,703	174
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	9	54	56	97	41
22 Transportation of things	0	1	1	2	1
23.1 Rental payments to GSA	54	904	918	918	0
23.2 Rental payments to others	47	265	265	337	72
23.3 Commun., util., and misc. charges	0	42	44	48	4
24 Printing and reproduction	7	1	1	4	3
25.1 Advisory and assistance services	273	357	394	3,444	3,050
25.2 Other services from non-Federal sources	1,284	1,416	1,034	1,651	617
25.3 Other goods and services from Federal sources	1,671	972	1,554	1,747	193
25.4 Operations and maintenance of facilities	0	0	2	2	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0

Exhibit 16A

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
25.7 Operation and maintenance of equipment	0	267	267	9,279	9,012
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	18	22	23	26	3
31 Equipment	127	135	148	389	241
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	8,142	10,357	10,973	10,973	14,008
Less prior year recoveries	(196)	0	0	0	0
Less prior year unobligated balance	0	(382)	0	0	0
Unobligated balance, expiring	14	0	0	0	0
Unobligated balance, end of year	382	0	0	0	0
Total Budget Authority	8,342	9,975	10,973	10,973	14,008
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	25	29	30	34	4
Other than full-time permanent	0	0	0	0	0
Total	25	29	30	34	4
Authorized Positions:					
Full-time permanent	26	31	31	37	6
Other than full-time permanent	0	0	0	0	0
Total	26	31	31	37	6

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Advanced Communications Research
SELECT ACTIVITIES BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Advanced Communications Research

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$4,123	\$4,202	\$4,494	\$6,203	\$1,709
11.3 Other than full-time permanent	125	41	43	43	0
11.5 Other personnel compensation	218	104	111	191	80
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	4,466	4,347	4,648	6,437	1,789
12.1 Civilian personnel benefits	1,213	1,406	1,499	2,196	697
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	41	125	128	148	20
22 Transportation of things	3	2	2	2	0
23.1 Rental payments to GSA	115	71	71	71	0
23.2 Rental payments to others	1	63	63	63	0
23.3 Commun., util., and misc. charges	51	50	53	73	20
24 Printing and reproduction	0	1	1	1	0
25.1 Advisory and assistance services	1,121	930	414	414	0
25.2 Other services from non-Federal sources	1,332	1,546	1,547	1,963	416
25.3 Other goods and services from Federal sources	1,249	2,096	2,904	6,058	3,154
25.4 Operations and maintenance of facilities	0	797	797	797	0
25.5 Research and development contracts	0	40	40	40	0
25.6 Medical care	0	0	0	0	0

Exhibit 16A

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
25.7 Operation and maintenance of equipment	0	294	294	294	0
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	183	33	34	34	0
31 Equipment	2,834	2,660	2,677	3,177	500
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	12,609	14,461	15,172	21,768	6,596
Less prior year recoveries	(80)	0	0	0	0
Less prior year unobligated balance	(789)	(568)	0	0	0
Unobligated balance, expiring	70	0	0	0	0
Unobligated balance, end of year	568	0	0	0	0
Total Budget Authority	12,378	13,893	15,172	21,768	6,596

Personnel Data

Full-Time equivalent Employment:

Full-time permanent	28	30	31	44	13
Other than full-time permanent	1	1			
Total	29	31	31	44	13

Authorized Positions:

Full-time permanent	38	42	43	60	17
Other than full-time permanent	1	1			
Total	39	43	43	60	17

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Broadband Programs
SELECT ACTIVITIES BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Broadband Programs

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$3,964	\$4,595	\$4,935	\$10,623	\$5,688
11.3 Other than full-time permanent	151	18	19	19	0
11.5 Other personnel compensation	140	110	116	212	96
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	4,255	4,723	5,070	10,854	5,784
12.1 Civilian personnel benefits	1,358	1,522	1,630	3,274	1,644
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	126	33	37	640	603
22 Transportation of things	1	1	1	35	34
23.1 Rental payments to GSA	308	357	375	375	0
23.2 Rental payments to others	223	25	25	421	396
23.3 Commun., util., and misc. charges	181	58	61	193	132
24 Printing and reproduction	2	1	2	33	31
25.1 Advisory and assistance services	6,130	6,150	4,998	7,487	2,489
25.2 Other services from non-Federal sources	2,995	3,310	5,309	10,376	5,067
25.3 Other goods and services from Federal sources	5,726	3,420	2,172	5,541	3,369
25.4 Operations and maintenance of facilities	0	0	2	2	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	371	371	371	0

Exhibit 16A

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	38	17	18	123	105
31 Equipment	1,627	697	715	1,180	465
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	22,970	20,685	20,786	40,905	20,119
Less prior year recoveries	(113)	0	0	0	0
Less prior year unobligated balance	(7,118)	(1,200)	0	0	0
Unobligated balance, expiring	46	0	0	0	0
Unobligated balance, end of year	1,200	0	0	0	0
Total Budget Authority	16,985	19,485	20,786	40,905	20,119
 Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	28	34	35	76	41
Other than full-time permanent	1	0	0	0	0
Total	29	34	35	76	41
 Authorized Positions:					
Full-time permanent	28	40	40	81	41
Other than full-time permanent	1	0	0	0	0
Total	29	40	40	81	41

Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
Public Safety Communications
SELECT ACTIVITIES BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Public Safety Communications

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$199	\$1,034	\$1,077	\$1,077	\$0
11.3 Other than full-time permanent	1	0	0	0	0
11.5 Other personnel compensation	0	26	27	27	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	200	1,060	1,104	1,104	0
12.1 Civilian personnel benefits	63	344	358	358	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	6	63	63	63	0
22 Transportation of things	0	2	2	2	0
23.1 Rental payments to GSA	3	302	305	305	0
23.2 Rental payments to others	1	0	0	0	0
23.3 Commun., util., and misc. charges	0	1	1	1	0
24 Printing and reproduction	0	10	10	10	0
25.1 Advisory and assistance services	4	1,225	1,234	2,575	1,341
25.2 Other services from non-Federal sources	5	375	18	18	0
25.3 Other goods and services from Federal sources	37	42	172	172	0
25.4 Operations and maintenance of facilities	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0

Exhibit 16A

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
25.7 Operation and maintenance of equipment	0	7	7	7	0
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	0	3	3	3	0
31 Equipment	6	5	7	7	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	325	3,439	3,284	4,625	1,341
Less prior year recoveries	0	0	0	0	0
Less prior year unobligated balance	(308)	(357)	0	0	0
Unobligated balance, expiring	5	0	0	0	0
Unobligated balance, end of year	357	0	0	0	0
Total Budget Authority	379	3,082	3,284	4,625	1,341

Personnel Data

Full-Time equivalent Employment:

Full-time permanent	1	7	7	1	(6)
Other than full-time permanent	0	0	0	0	0
Total	1	7	7	1	(6)

Authorized Positions:

Full-time permanent	1	7	7	1	(6)
Other than full-time permanent	0	0	0	0	0
Total	1	7	7	1	(6)

Department of Commerce
National Telecommunications and Information Administration
Department of Commerce – General Provisions
JUSTIFICATION OF PROPOSED LANGUAGE CHANGES

FY 2024

The following language is proposed in the general provisions for the Department of Commerce to make available up to 5 percent of amounts for broadband programs in the Infrastructure Investment and Jobs Act of 2022 (IIJA) and provide transfer authority between broadband programs funded by IIJA and the Consolidated Appropriations Act, 2021, for conducting oversight and monitoring of grants.

SEC. 112. Hereafter, notwithstanding title II of division J of the Infrastructure Investment and Jobs Act (Public Law 117–58) as amended by section 541 of title II of division B of the Consolidated Appropriations Act of 2022 (Public Law 117–103), up to 5 percent of amounts made available to the National Telecommunications and Information Administration pursuant to the Infrastructure Investment and Jobs Act may be used for salaries and expenses, administration, and oversight of any of the programs administered by it that received appropriations under that Act and of the Connecting Minority Communities Pilot Program (as authorized by section 902 of division N of Public Law 116–120) regardless of the header under which such amounts were appropriated: Provided, That amounts may be transferred between the appropriate accounts to carry out this section: Provided further, That amounts repurposed pursuant to this section that were previously designated by the Congress as an emergency requirement pursuant to section 4112(a) of H. Con. Res. 71 (115th Congress), the concurrent resolution on the budget for fiscal year 2018, and to section 251(b) of the Balanced Budget and Emergency Deficit Control Act of 1985 are designated by the Congress as an emergency requirement pursuant to section 4001(a)(1) and section 4001(b) of S. Con. Res. 14 (117th Congress), the concurrent resolution on the budget for fiscal year 2022.

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
APPROPRIATION LANGUAGE AND CODE CITATION**

FY 2024

APPROPRIATION LANGUAGE

For necessary expenses, as provided for by law, of the National Telecommunications and Information Administration (NTIA), \$109,665,000, to remain available until September 30, 2025: Provided, That, notwithstanding 31 U.S.C. 1535(d), the Secretary of Commerce shall charge Federal agencies for costs incurred in spectrum management, analysis, operations, and related services, and such fees shall be retained and used as offsetting collections for costs of such spectrum services, to remain available until expended: Provided further, That the Secretary of Commerce is authorized to retain and use as offsetting collections all funds transferred, or previously transferred, from other Government agencies for all costs incurred in telecommunications research, engineering, and related activities by the Institute for Telecommunication Sciences of NTIA, in furtherance of its assigned functions under this paragraph, and such funds received from other Government agencies shall remain available until expended.

GENERAL PROVISIONS—DEPARTMENT OF COMMERCE

SEC. 112. Hereafter, notwithstanding title II of division J of the Infrastructure Investment and Jobs Act (Public Law 117–58) as amended by section 541 of title II of division B of the Consolidated Appropriations Act of 2022 (Public Law 117–103), up to 5 percent of amounts made available to the National Telecommunications and Information Administration pursuant to the Infrastructure Investment and Jobs Act may be used for salaries and expenses, administration, and oversight of any of the programs administered by it that received appropriations under that Act and of the Connecting Minority Communities Pilot Program (as authorized by section 902 of division N of Public Law 116–120) regardless of the header under which such amounts were appropriated: Provided, That amounts may be transferred between the appropriate accounts to carry out this section: Provided further, That amounts repurposed pursuant to this section that were previously designated by the Congress as an emergency requirement pursuant to section 4112(a) of H. Con. Res. 71 (115th Congress), the concurrent resolution on the budget for fiscal year 2018, and to section 251(b) of the Balanced Budget and Emergency Deficit Control Act of 1985 are designated by the Congress as an emergency requirement pursuant to section 4001(a)(1) and section 4001(b) of S. Con. Res. 14 (117th Congress), the concurrent resolution on the budget for fiscal year 2022.

15 U.S.C. § 1512
15 U.S.C. § 1532
47 U.S.C. § 305
47 U.S.C. § 606

47 U.S.C. § 901, et seq.
47 U.S.C. § 1304
47 U.S.C. § 1305
47 U.S.C. § 1413

47 U.S.C. § 1701
47 U.S.C. § 1721
47 U.S.C. § 1741

15 U.S.C. § 1512 authorizes the Secretary of Commerce to foster, promote and develop foreign and domestic commerce.

15 U.S.C. § 1532 authorizes the Secretary of Commerce to conduct research and analysis in all telecommunications sciences; to investigate the transmission of radio waves and electromagnetic radiation; and to compile, evaluate, publish, and distribute related information.

47 U.S.C. § 305 authorizes the President to assign frequencies to radio stations or classes of radio stations belonging to and operated by the United States. Originally delegated to the Department of Commerce by Executive Order 12046, as later codified in the National Telecommunications and Information Administration Organization Act, 47 U.S.C. § 901, et seq.

47 U.S.C. § 606 and associated Executive Orders authorize the President to perform certain telecommunications emergency functions essential to security and the national defense.

47 U.S.C. § 901, et seq. authorizes NTIA to perform the Secretary's communications and information functions, among other things.

47 U.S.C. § 1304 authorizes the Secretary of Commerce to establish and administer a grant program for the development and implementation of statewide initiatives to identify and track the availability and adoption of broadband services within each State.

47 U.S.C. § 1305 authorizes the Assistant Secretary of Commerce for Communications and Information to establish and administer a national broadband service development and expansion grant program and to develop and maintain a comprehensive nationwide inventory map of existing broadband service capability and availability in the United States.

47 U.S.C. § 1701 authorizes the Assistant Secretary to establish and administer a grant program, to be known as the "Broadband Equity, Access, and Deployment Program", under which the Assistant Secretary makes grants to eligible entities, in accordance with this section, to bridge the digital divide.

47 U.S.C. § 1721 authorized the Assistant Secretary to establish and administer a grant program, to be known as the State Digital Equity Capacity Grant Program, to promote the achievement of digital equity, support digital inclusion activities, and build capacity for efforts by States relating to the adoption of broadband by residents of those States.

47 U.S.C. § 1741 authorizes the Assistant to establish and administer a program under which the Assistant Secretary makes grants on a technology-neutral, competitive basis to eligible entities for the construction, improvement, or acquisition of middle mile infrastructure.

THIS PAGE INTENTIONALLY LEFT BLANK.

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$6,621	\$11,521	\$16,248
Special studies and analyses	0	0	0
Management and support services for research and development	1,121	930	414
Total	7,742	12,451	16,662

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
PERIODICALS, PAMPHLETS AND AUDIOVISUAL PRODUCTS**

	2022 Actual	2023 Enacted	2024 Estimate
Periodicals	\$0	\$0	\$0
Pamphlets	0	0	0
Audiovisuals	0	0	0
Total	0	0	0

**Department of Commerce
National Telecommunications and Information Administration
Salaries and Expenses
AVERAGE GRADE AND SALARIES**

	2022 Actual	2023 Enacted	2024 Estimate
Average ES Salary	\$192,438	\$201,790	\$212,284
Average GS/GM Grade	13	13	13
Average GS/GM Salary	\$136,652	\$143,293	\$150,745

THIS PAGE INTENTIONALLY LEFT BLANK.

**Department of Commerce
National Telecommunication and Information Administration
Operating Unit of Commerce
Salaries and Expenses
IMPLEMENTATION STATUS OF GAO AND OIG RECOMMENDATIONS**

31 U.S.C. 720, as amended January 3, 2019, requires the head of a federal agency to submit a written statement of the actions planned or taken on Government Accountability Office (GAO) recommendations to the House and Senate on Appropriations with the agency's first request for appropriations made more than 180 calendar days after the date of the report.

The Good Accounting Obligation in Government Act (GAO-IG Act), passed on January 3, 2019, (P.L. 115-414) requires each agency to include, in its annual budget justification, a report that identifies each recommendation issued by GAO and the agency's office of the inspector general (OIG) which has remained unimplemented for one year or more from the annual budget justification submission date. In addition, the Act requires a reconciliation between the agency records and the IGs' Semiannual Report to Congress (SAR).

Section 1. Recommendations for which action plans were finalized since the last appropriation request.

1. **Report Title:** *Agencies Should Strengthen Collaborative Mechanisms and Processes to Address Potential Interference*, GAO-21-474, (June 29, 2021)
 - a. Recommendation 8: The NTIA Administrator should update the FCC-NTIA MOU to address identified gaps (such as lack of clearly defined goals and agreed-upon processes for making decisions) and develop a means to continually monitor and update this agreement, in consultation with FCC.
 - b. Resolved: NTIA and FCC executed an updated MOU on August 1, 2022, which addresses this recommendation.

Section 2. Implementation of GAO public recommendation issued on less than one year ago that designated by GAO as 'Open' or 'Closed-Unimplemented.'

Open Recommendations

1. **Report Title:** *Broadband Funding: Stronger Management of Performance and Fraud Risk Needed for Tribal and Public-Private Partnership Grants*, GAO-23-105426, (January 24, 2023), Office of Internet Connectivity and Growth
 - Recommendation 1: For TBCP, the Administrator of NTIA should establish performance goals and measures for all of the program's purposes funding broadband use and adoption projects as well as funding broadband infrastructure deployment projects.

- Recommendation 2: For TBCP, the Administrator of NTIA should ensure the performance goal is quantifiable and measurable by defining broadband reliability and affordability.
- Recommendation 3: For TBCP, the Administrator of NTIA should designate a dedicated entity to lead fraud risk management activities for the program.
- Recommendation 4: For TBCP, the Administrator of NTIA should ensure that the dedicated entity identifies inherent fraud risks in the program.
- Recommendation 5: For TBCP, the Administrator of NTIA should ensure that the dedicated entity assesses the likelihood and impact of inherent fraud risks in the program.
- Recommendation 6: For TBCP, the Administrator of NTIA should ensure that the dedicated entity determines fraud risk tolerance for the program.
- Recommendation 7: For TBCP, the Administrator of NTIA should ensure that the dedicated entity examines the suitability of existing antifraud controls in the program and prioritizes residual fraud risks.
- Recommendation 8: For TBCP, the Administrator of NTIA should ensure that the dedicated entity documents the fraud risk profile for the program.
- Recommendation 9: For BIP, the Administrator of NTIA should ensure the performance goal is quantifiable and measurable by defining broadband affordability.
- Recommendation 10: For BIP, the Administrator of NTIA should designate a dedicated entity to lead fraud risk management activities for the program.
- Recommendation 11: For BIP, the Administrator of NTIA should ensure that the dedicated entity identifies inherent fraud risks in the program.
- Recommendation 12: For BIP, the Administrator of NTIA should ensure that the dedicated entity assesses the likelihood and impact of inherent fraud risks in the program.
- Recommendation 13: For BIP, the Administrator of NTIA should ensure that the dedicated entity determines fraud risk tolerance for the program.
- Recommendation 14: For BIP, the Administrator of NTIA should ensure that the dedicated entity examines the suitability of existing antifraud controls in the program and prioritizes residual fraud risks.
- Recommendation 15: For BIP, the Administrator of NTIA should ensure that the dedicated entity documents the fraud risk profile for the program.

Open Recommendations(s) the Department has decided not to implement.

Nothing to Report

Open Recommendations(s) the Department has plans to implement.

Include information on all open recommendations made one year or more ago that the Department / bureau plans to implement. GAO recommendations are open until officially closed by GAO.

1. **Report Title:** *Agencies Should Strengthen Collaborative Mechanisms and Processes to Address Potential Interference*, GAO-21-474 (June 29, 2021), Office of Spectrum Management
 - Recommendation 6: The NTIA Administrator should establish clearly defined and agreed-upon processes for making decisions on spectrum-management activities that involve other agencies, particularly when consensus cannot be reached, in consultation with FCC and as appropriate a State.
 - Recommendation 7: The NTIA Administrator should clarify and further identify shared goals or outcomes for spectrum-management activities that involve collaboration and ways to monitor and track progress, in consultation with FCC and as appropriate a State.
 - Recommendation 9: The NTIA Administrator should request that State initiate a review of the General Guidance Document in consultation with NTIA, FCC, and other relevant participants and update and develop a means to continually monitor and update this document.
 - Recommendation 10: The NTIA Administrator should establish procedures to help guide the design (including selection of acceptable assumptions and methodologies) of spectrum-sharing and potential-interference studies intended as U.S. contributions to WRC technical meetings, in consultation with FCC, State, and other federal participants of the U.S. technical preparatory process.

2. **Report Title:** *NTIA Should Improve Spectrum Reallocation Planning and Assess Its Workforce*, GAO-22-104537 (January 27, 2022), Office of Spectrum Management
 - Recommendation 1: The NTIA Administrator should align its spectrum reallocation-planning efforts with leading practices for program management by developing a plan, analyzing risks, and creating and updating a schedule for NTIA's ongoing and future reallocation efforts.
 - Recommendation 2: The NTIA Administrator should document and disseminate to federal agencies policies and procedures describing how it collects and considers agencies' views on spectrum-related matters to present the views of the executive branch to FCC.
 - Recommendation 3: The NTIA Administrator should assess for organization-wide competency gaps in key occupations that manage federal spectrum use and develop and implement a plan to address any identified gaps.

3. **Report Title:** *Public-Safety Broadband Network: Network Deployment Is Progressing, but FirstNet Could Strengthen Its Oversight*, GAO 20-346 (January 27, 2020), First Responder Network Authority

- Recommendation 1: FirstNet's Chief Executive Officer should take steps to ensure that the integrated master schedule for the program is developed and maintained in accordance with the best practices provided in GAO's Schedule Assessment Guide.
4. **Report Title:** *Broadband: National Strategy Needed to Guide Federal Efforts to Reduce Digital Divide*, GAO-22-104611 (May 31, 2022), Office of Internet Connectivity and Growth
- Recommendation 1: The NTIA Administrator should direct the Office of Internet Connectivity and Growth, to consult with OMB, other White House offices, and relevant agencies and present to Congress a report that identifies the key statutory provisions that limit the beneficial alignment of broadband programs and offers legislative proposals to address the limitations, as appropriate.
 - Recommendation 2: The NTIA Administrator should direct the Office of Internet Connectivity and Growth to regularly seek and incorporate user feedback when updating the BroadbandUSA Federal Funding Guide.
5. **Report Title:** *Tribal Broadband: National Strategy and Coordination Framework Needed to Increase Access*, GAO-22-104421 (June 22, 2022), Office of Internet Connectivity and Growth
- Recommendation 2: The NTIA Administrator should establish a framework within the American Broadband Initiative for addressing tribal barriers. Such a framework could include adding a tribal subcommittee or standing agenda item to the existing workstreams or establishing a new workstream.

Recommendations designed by GAO as “Closed –Unimplemented for the past 5 years (2015-2019).” Future reports will cover a one-year period.

Nothing to Report

Section 3. Implementation of OIG public recommendations issued no less than one year for which Final Action has not been Taken or Action Note Recommended has been Taken

1. **Report Title:** Final Report No. OIG-23-0005-A, *FirstNet Authority Could Not Demonstrate Investment Decisions Were the Best Use of Reinvestment Funds or Maximize the Benefits to Public Safety*.
 - Corrective Action Plan Submitted: Joint Plan (NTIA and FirstNet) January 25, 2023
 - OIG Concurrence: February 3, 2023
2. **Report Title:** Final Report No. OIG-22-029-A, *FirstNet Authority Did Not Have Reliable Cost Estimates to Ensure It Awarded Two Reinvestment Task Orders at Fair and Reasonable Prices*.

- Corrective Action Plan Submitted: NTIA Action Plan on Recommendations 1-2 (September 9, 2022); FirstNet Action Plan on Recommendations 3-7 (October 5, 2022)
- OIG Concurrence: NTIA Plan (September 15, 2022); FirstNet Plan (October 15, 2022)

Section 4. Discrepancies between this report and the semiannual reported submitted by Commerce Office of Inspector General or reports submitted by the GAO

Nothing to Report.

Department of Commerce
National Telecommunications and Information
Administration Salaries and Expenses
Description of Tribal Consultation
(Dollar amounts in thousands)

NTIA's Salaries and Expenses programs have no tribal implications. No consultation with tribes for our S&E budget is required.

Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	0	0	\$0	\$0
2024 Adjustments to base:				
Plus: Inflationary adjustments to base	0	0	0	0
2024 Base	0	0	0	0
Plus: 2024 Program changes	1	1	7,612	7,612
2024 Estimate	1	1	7,612	7,612

Comparison by activity/subactivity: with totals by activity			2022		2023		2024		2024		Increase/Decrease	
			Actuals		Enacted		Base		Estimate		from 2024 Base	
			Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
NTIA - 87	Facilities Management and	Pos./BA	0	\$0	0	\$0	0	\$0	1	\$7,612	1	\$7,612
	Construction	FTE/Obl.	0	0	0	0	0	0	1	7,612	1	7,612
	Total	Pos./BA	0	0	0	0	0	0	1	7,612	1	7,612
		FTE/Obl.	0	0	0	0	0	0	1	7,612	1	7,612
Adjustments for:												
	Recoveries			0		0		0		0		0
	Unobligated balance, start of year			0		0		0		0		0
	Unobligated balance transferred			0		0		0		0		0
	Unobligated balance, end of year			0		0		0		0		0
	Unobligated balance expiring			0		0		0		0		0
Financing from transfers:												
	Transfer from other accounts (-)			0		0		0		0		0
	Transfer to other accounts (+)			0		0		0		0		0
	Appropriation			0		0		0		7,612		7,612

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
SUMMARY OF FINANCING
(Dollar amounts in thousands)

	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
Total Obligations	\$0	\$0	\$0	\$7,612	\$7,612
Offsetting collections from:					
Federal funds	0	0	0	0	0
Non-Federal sources	0	0	0	0	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	0	0	0	0	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	0	0	0	0	0
Unobligated balance expiring	0	0	0	0	0
Budget Authority	0	0	0	7,612	7,612
Financing:					
Transfer from other accounts (-)	0	0	0	0	0
Transfer to other accounts (+)	0	0	0	0	0
Appropriation	0	0	0	7,612	7,612

Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	0	0
Financing	0	0
Other Changes:		
2023 Pay raise		0
2024 Pay raise		0
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023 (5 FTE)	0	0
Change in compensable days		0
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		0
Thrift Savings Plan		0
Federal Insurance Contribution Act (FICA) - OASDI		0
Health insurance		0
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		0
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		0
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>0</u>
Total, adjustments to base	<u>0</u>	<u>0</u>

Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Facilities Management and Construction

Line Item		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Facilities Management and Construction	Pos./BA	0	\$0	0	\$0	0	\$0	1	\$7,612	1	\$7,612
	FTE/Obl	0	0	0	0	0	0	1	7,612	1	7,612
Total	Pos./BA	0	0	0	0	0	0	1	7,612	1	7,612
	FTE/Obl	0	0	0	0	0	0	1	7,612	1	7,612

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Facilities Management and Construction

Goal Statement

Most of the infrastructure at the Table Mountain Field Site and Radio Quiet Zone was constructed prior to 1965 and needs repair, modernization, or renovation. To support the increased demands of modern spectrum sharing research, the facilities and telecommunications infrastructure at the Site will be renovated or upgraded to meet modern research, accessibility, safety, reliability, and energy efficiency requirements.

Base Programs

The Table Mountain Field Site and Radio Quiet Zone, located north of Boulder, Colorado, supports the fundamental research activities of the Institute for Telecommunication Sciences (ITS), the National Oceanic and Atmospheric Administration (NOAA), the National Institute of Standards and Technologies (NIST), the National Telecommunications and Information Administration (NTIA), and the U.S. Geological Survey (USGS). The property, comprising 1,700 acres with 12 buildings encompassing 13,000 square feet to support research and auxiliary functions, was originally leased by the Boulder laboratories in 1954 for the purpose of performing radio experiments. The site was subsequently purchased by the federal government in 1961.

Essential features of the site include homogeneous underlying soils; special purpose laboratory facilities; buried cabling and utilities to minimize radiated noise and interference; and radio quiet zone protection by both State and Federal laws from strong, external signals. These unique characteristics make the site ideal for sensitive radio or electromagnetic experiments, as well as for applications needing low vibration and unobstructed views of the sky. Additionally, the measurements collected at the site provide valuable historical data against which new measurements may be compared.

Statement of Operating Objectives

Telecommunications is one of the most rapidly evolving sectors of the economy with new generations of equipment being released annually or more frequently. To keep pace with each new generation of technology, NTIA must continually invest in

facilities to support modern measurement techniques and equipment to meet the needs of greater sensitivity, increased resolution, higher frequencies, and wider bandwidths.

At the Table Mountain Field Site and Radio Quiet Zone, the Department of Commerce’s premier facility for over-the-air testing of interactions between spectrum dependent systems, NTIA will perform comprehensive upgrades, repairs, and modernization to buildings, telecommunications infrastructure, and roadways. Examples of activities include renovating building interiors, repairing roofs, replacing HVAC systems, retrofitting with energy efficient building facades, replacing water holding tanks and septic systems, upgrading computer server rooms and installing internet connectivity throughout, upgrading, repairing and extending fiber optic interconnects to all buildings and entrance gates, installing power and network drops in select locations to support field measurements, increasing site-wide network bandwidth, replacing outdated telecommunications towers, installing electrical grounding systems and lightning arrestors, renovating the vehicle-capable antenna pattern measurement turntable, restoring the two 60’ parabolic dish antennas, expanding research facility square footage, regrading of roadways, decommissioning and remediating abandoned experimental apparatus, and repairing/replacing site perimeter fencing. ITS will also perform a study of modern solar power inverter radiofrequency emissions. Should they prove negligible, a solar power farm to satisfy energy efficiency mandates will be constructed.

Explanation and Justification

Line Item		2023		2024		2024	
		Actual		Enacted		Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Facility Management and Construction	Pos./BA	0	\$0	0	\$0	0	\$0
	FTE/Obl	0	0	0	0	0	0

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
PROGRAM CHANGES FOR 2024**
(Dollar amounts in thousands)

		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount
Facilities Management and Construction	Pos./BA	0	\$0	1	\$7,612	1	\$7,612
	FTE/Ob.	0	0	1	7,612	1	7,612

Facilities Management and Construction (+\$7,612, 1 FTE/1 Position)

To support the increased demands of modern spectrum-sharing research, NTIA is proposing a new Facility Management and Construction, no-year-appropriation account for the restoration and modernization of its facilities, telecommunication infrastructure, roads, and grounds of NTIA's government-owned facilities to meet modern research, accessibility, safety, reliability, and energy-efficiency requirements. Maintenance and construction projects will include renovating building interiors, repairing and upgrading roofs, replacing HVAC systems, installing energy-efficient-building exteriors, replacing water-holding tanks, and septic systems, expanding research facility square footage, and repairing/replacing perimeter fencing.

Performance Measures:	2024	2025	2026	2027	2028
% of infrastructure investments completed	15%	35%	55%	75%	100%

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
PROGRAM CHANGE PERSONNEL DETAIL**

**Activity: Facilities Management and Construction
Program Change: Facilities Management and Construction**

Title	Grade	Number	Annual Salary	Total Salaries
Facilities Manager	ZA 3	1	\$112,788	\$112,788
Subtotal		1		112,788
Less Lapse		0		0
Total full-time permanent FTE		1		112,788
2024 Pay Adjustment				5,865
Total				118,653
Personnel Data				
Full-Time Equivalent Employment:				
Full-time permanent		1		
Other than full-time permanent		0		
Total		1		
Authorized Positions:				
Full-time permanent		1		
Other than full-time permanent		0		
Total		1		

Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
FACILITIES MANAGEMENT AND CONSTRUCTION
PROGRAM CHANGE DETAIL BY OBJECT CLASS
 (Dollar amounts in thousands)

Activity: Facilities Management and Construction

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$0	\$0	\$0	\$119	\$119
11.3 Other than full-time permanent	0	0	0	0	0
11.5 Other personnel compensation	0	0	0	3	3
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	0	0	0	122	122
12.1 Civilian personnel benefits	0	0	0	40	40
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	0	0	0	0	0
22 Transportation of things	0	0	0	0	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	0	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	0	0	0	0	0
25.2 Other services from non-Federal sources	0	0	0	0	0
25.3 Other goods and services from Federal sources	0	0	0	0	0
25.4 Operations and maintenance of facilities	0	0	0	811	811
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0
26 Supplies and materials	0	0	0	0	0
31 Equipment	0	0	0	0	0
32 Lands and structures	0	0	0	6,639	6,639
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	0	0	0	7,612	7,612
Less prior year recoveries	0	0	0	0	0
Less prior year unobligated balance	0	0	0	0	0
Total Budget Authority	0	0	0	7,612	7,612

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction**

SUMMARY OF REQUIREMENTS BY OBJECT CLASS

(Dollar amounts in thousands)

Object Class	2022 Actuals	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent compensation	\$0	\$0	\$0	\$119	\$119
11.3 Other than full-time permanent	0	0	0	0	0
11.5 Other personnel compensation	0	0	0	3	3
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	0	0	0	122	122
12.1 Civilian personnel benefits	0	0	0	40	40
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	0	0	0	0	0
22 Transportation of things	0	0	0	0	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	0	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	0	0	0	0	0
25.2 Other services from non-Federal sources	0	0	0	0	0
25.3 Other goods and services from Federal sources	0	0	0	0	0
25.4 Operations and maintenance of facilities	0	0	0	811	811
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation and maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class		2022 Actuals	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26	Supplies and materials	0	0	0	0	0
31	Equipment	0	0	0	0	0
32	Lands and structures	0	0	0	6,639	6,639
33	Investments and loans	0	0	0	0	0
41	Grants, subsidies and contributions	0	0	0	0	0
42	Insurance claims and indemnities	0	0	0	0	0
43	Interest and dividends	0	0	0	0	0
44	Refunds	0	0	0	0	0
99.9	Total Obligations	0	0	0	7,612	7,612
	Less prior year recoveries	0	0	0	0	0
	Less prior year unobligated balance	0	0	0	0	0
	Total Budget Authority	0	0	0	7,612	7,612
 Personnel Data						
Full-Time equivalent Employment:						
	Full-time permanent	0	0	0	1	1
	Other than full-time permanent	0	0	0	0	
	Total	0	0	0	1	1
 Authorized Positions:						
	Full-time permanent	0	0	0	1	1
	Other than full-time permanent	0	0	0	0	
	Total	0	0	0	1	1

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
APPROPRIATION LANGUAGE AND CODE CITATION**

FY 2024

For necessary expenses for the design, construction, alteration, improvement, maintenance, and repair of buildings and facilities managed by the National Telecommunications and Information Administration, not otherwise provided for, \$7,612,000, to remain available until expended.

**Department of Commerce
National Telecommunications and Information Administration
Facilities Management and Construction
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$0	\$0	\$0
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	0	0	0

Department of Commerce
National Telecommunications and Information Administration
Public Telecommunications Facilities, Planning, and Construction
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)

	Positions	FTE	Budget Authority	Direct Obligations
President's Budget, 2023	0	0	0	0
2024 Adjustments to base:	0	0	0	0
2024 Base	0	0	0	0
plus: 2024 Program changes	0	0	0	0
2024 Estimate	0	0	0	0

**Comparison by activity/subactivity:
with totals by activity**

		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Public Telecommunications Facilities, Planning, and Construction, Grants	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	0	0	0	0	0	0	0	0	0
Public Telecommunications Facilities, Planning, and Construction, Program Management	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	4	0	0	0	0	0	0	0	0
Total	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	4	0	0	0	0	0	0	0	0
Adjustments for:											
Recoveries			0		0		0		0		0
Unobligated balance, start of year			(1,202)		(1,198)		(1,198)		(1,198)		0
Unobligated balance transferred			0		0		0		0		0
Unobligated balance, end of year			1,198		1,198		1,198		1,198		0
Unobligated balance expiring			0		0		0		0		0
Financing from transfers:											
Transfer from other accounts (-)			0		0		0		0		0
Transfer to other accounts (+)			0		0		0		0		0
Appropriation			0		0		0		0		0

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Public Telecommunications Facilities, Planning, and Construction
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)

Activity: Public Telecommunications Facilities, Planning, and Construction

The Public Telecommunications Facilities, Planning, and Construction program was discontinued in FY 2011.

**Department of Commerce
National Telecommunications and Information Administration
Public Telecommunications Facilities, Planning, and Construction
APPROPRIATION LANGUAGE AND CODE CITATION**

For the administration of prior-year grants, recoveries and unobligated balances of funds previously appropriated are available for the administration of all open grants until their expiration. (Public Law 116-216)

47 U.S.C. § 391 authorizes the Secretary of Commerce to provide grant funds for the planning and construction of public telecommunications facilities by eligible entities.

47 U.S.C. § 392 sets forth the application requirements to be submitted to the Secretary of Commerce by eligible entities to request funds for the construction of public telecommunications facilities.

47 U.S.C. § 902(b)(3) assigned to NTIA the administration of the Public Telecommunications Facilities Program.

Exhibit 5

**Department of Commerce
National Telecommunications and Information Administration
Public Safety Trust Fund
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)**

	Positions	FTE	Budget Authority	Direct Obligations
President's Budget, 2023	0	0	\$0	\$0
2024 Adjustments to base:	0	0	0	0
2024 Base	0	0	0	0
plus: 2024 Program changes	0	0	0	0
2024 Estimate	0	0	0	0

		2022		2023		2024		2024		Increases/Decreases	
		Actual	Amount	Enacted	Amount	Base	Amount	Estimate	Personnel	Amount	from 2024 Base
Comparison by activity/subactivity: with totals by activity											
Public Safety Trust Fund	Pos./BA	0	\$1,552	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	9,052	0	0	0	0	0	0	0	0
First Responder Network Authority Administrative	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	229	0	0	0	0	0	0	0	0
National Telecommunications & Information Administration Program Administration & Implementation	Pos./BA	6	0	0	0	0	0	0	0	0	0
	FTE/Obl.	5	2,006	0	0	0	0	0	0	0	0
National Telecommunications & Information Administration Next Generation 911	Pos./BA	1	0	0	0	0	0	0	0	0	0
	FTE/Obl.	1	379	0	0	0	0	0	0	0	0
Total	Pos./BA	7	1,552	0	0	0	0	0	0	0	0
	FTE/Obl.	6	11,666	0	0	0	0	0	0	0	0
Adjustments for:											
Recoveries			(280)		0		0		0		0
Unobligated balance, start of year			(11,946)		0		0		0		0
Unobligated balance transferred			0		0		0		0		0
Unobligated balance, end of year			0		0		0		0		0
Unobligated balance expiring			2,112		0		0		0		0
Financing from transfers:											
Transfer from other accounts (-)			0		0		0		0		0
Transfer to other accounts (+)			0		0		0		0		0
Appropriation			1,552		0		0		0		0

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
State and Local Implementation Fund
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:			2022		2023		2024		2024		Increase/Decrease	
			Actual		Enacted		Base		Estimate		from 2024 Base	
State and Local Implementation Fund			Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>												
State and Local Implementation Grant	Pos./BA		1	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Fund Administration	FTE/Obl.		1	368	0	0	0	0	0	0	0	0
Total, Reimbursable Projects												
	Pos./BA		1	0	0	0	0	0	0	0	0	0
	FTE/Obl.		1	368	0	0	0	0	0	0	0	0

Department of Commerce
National Telecommunications and Information Administration
Network Construction Fund
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
Network Construction Fund		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>											
First Responder Network Authority	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	6,978	0	0	0	0	0	0	0	0
Total, Reimbursable Projects											
	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	6,978	0	0	0	0	0	0	0	0

Department of Commerce
National Telecommunications and Information Administration
First Responder Network Authority
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
First Responder Network Authority		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>											
First Responder Network Authority	Pos./BA	209	\$0	230	\$0	236	\$0	236	\$0	0	\$0
	FTE/Obl.	209	91,825	230	277,215	236	284,157	236	284,157	0	0
Total, Reimbursable Projects											
	Pos./BA	209	0	230	0	236	0	236	0	0	0
	FTE/Obl.	209	91,825	230	277,215	236	284,157	236	284,157	0	0

Department of Commerce
National Telecommunications and Information Administration
Public Safety Trust Fund
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Public Safety Trust Fund

Line Item		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Public Safety Trust Fund	Pos./BA	0	\$1,552	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl	0	9,052	0	0	0	0	0	0	0	0
First Responder Network Authority Administration	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl	0	229	0	0	0	0	0	0	0	0
Program Administration and Implementation (NTIA)	Pos./BA	6	0	0	0	0	0	0	0	0	0
	FTE/Obl	5	2,006	0	0	0	0	0	0	0	0
Next Generation E-911, NTIA	Pos./BA	1	0	0	0	0	0	0	0	0	0
	FTE/Obl	1	379	0	0	0	0	0	0	0	0
Total	Pos./BA	7	1,552	0	0	0	0	0	0	0	0
	FTE/Obl	6	11,666	0	0	0	0	0	0	0	0

Department of Commerce
National Telecommunications and Information Administration
Public Safety Trust Fund
JUSTIFICATION OF PROGRAM AND PERFORMANCE
(Dollar amounts in thousands)

Activity: Public Safety Trust Fund

The Public Safety Trust Fund mandatory accounts expired on September 30, 2022. The Consolidated Appropriations Act, 2023 transitioned statutory, delegated, and other key public safety communications activities from the 47 USC 1457: Public Safety Trust Fund mandatory accounts to annual appropriations within NTIA's Salaries and Expenses.

Department of Commerce
National Telecommunications and Information Administration
Public Safety Trust Fund
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Public Safety Trust Fund

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$763	\$0	\$0	\$0	\$0
11.3 Other than full-time permanent	0	0	0	0	0
11.5 Other personnel compensation	33	0	0	0	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	796	0	0	0	0
12.1 Civilian personnel benefits	251	0	0	0	0
13 Benefits for former personnel	0				
21 Travel and transportation of persons	14	0	0	0	0
22 Transportation of things	0	0	0	0	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	248	0	0	0	0
23.3 Commun., util., and misc. charges	14	0	0	0	0
24 Printing and reproduction	6	0	0	0	0
25.1 Advisory and assistance services	0	0	0	0	0
25.2 Other services from non-Federal sources	471	0	0	0	0
25.3 Purchase of goods and services from Gov't accounts	780	0	0	0	0
25.4 Operation and Maintenance of Facilities	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26 Supplies and materials	2	0	0	0	0
31 Equipment	32	0	0	0	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	0	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
94 Expenditure Transfer	9,052	0	0	0	0
99.9 Total Obligations	11,666	0	0	0	0
Less prior year recoveries	(280)	0	0	0	0
Less prior year unobligated balance	(11,946)	0	0	0	0
Unobligated balance expiring	2,112	0	0	0	0
Total Budget Authority	1,552	0	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	6	0	0	0	0
Other than full-time permanent	0	0	0	0	0
Total	6	0	0	0	0
Authorized Positions:					
Full-time permanent	6	0	0	0	0
Other than full-time permanent	0	0	0	0	0
Total	6	0	0	0	0

THIS PAGE INTENTIONALLY LEFT BLANK.

**Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
SUMMARY OF RESOURCE REQUIREMENTS**
(Dollar amounts in thousands)

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	28	26	\$0	\$672,310
2024 Adjustments to base:				
plus: inflationary adjustments to base	0	0	0	1,350
plus: adjustment for FY 2024 program requirements	(3)	(1)	0	(284,318)
2024 Base	25	25	0	389,342
plus: 2024 Program changes	0	0	0	0
2024 Estimate	25	25	0	389,342

	2022		2023		2024		2024		Increases/Decreases		
	Actual		Enacted		Base		Estimate		from 2024 Base		
Comparison by activity/subactivity: with totals by activity	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Tribal Grants	Pos./BA	0	\$1,960,000	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	1,359,021	0	652,635	0	371,232	0	371,232	0	0
Tribal Admin	Pos./BA	13	40,000	22	0	20	0	20	0	0	0
	FTE/Obl.	11	6,851	21	17,338	20	15,792	20	15,792	0	0
Infrastructure Broadband Connectivity Grants	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	282,785	0	0	0	0	0	0	0	0
Infrastructure Broadband Connectivity Admin	Pos./BA	7	0	6	0	5	0	5	0	0	0
	FTE/Obl.	4	1,948	5	2,337	5	2,318	5	2,318	0	0
Total	Pos./BA	20	2,000,000	28	0	25	0	25	0	0	0
	FTE/Obl.	15	1,650,605	26	672,310	25	389,342	25	389,342	0	0
Adjustments for:											
Recoveries		0		0		0		0		0	
Unobligated balance, start of year		(1,288,700)		(1,638,095)		(965,785)		(965,785)			
Unobligated balance transferred		0		0		0		0		0	
Unobligated balance, end of year		1,638,095		965,785		576,443		576,443			
Unobligated balance expiring		0		0		0		0		0	
Financing from transfers:											
Transfer from other accounts (-)		0		0		0		0		0	
Transfer to other accounts (+)		0		0		0		0		0	
Appropriation		2,000,000		0		0		0		0	

THIS PAGE INTENTIONALLY LEFT BLANK.

**Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
SUMMARY OF REIMBURSABLE OBLIGATIONS**
(Dollar amounts in thousands)

Comparison by activity:

Broadband Connectivity Fund

Reimbursable Projects

		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Tribal	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	100	0	100	0	100	0	100	0	0
Total, Reimbursable Projects	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	100	0	100	0	100	0	100	0	0

**Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
SUMMARY OF REIMBURSABLE OBLIGATIONS**
(Dollar amounts in thousands)

Comparison by activity:

Broadband Connectivity Fund

Reimbursable Projects

Infrastructure Broadband
Connectivity

Total, Reimbursable Projects

		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Pos./BA		0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
FTE/Obl.		0	100	0	100	0	100	0	100	0	0
Pos./BA		0	0	0	0	0	0	0	0	0	0
FTE/Obl.		0	100	0	100	0	100	0	100	0	0

Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	(3)	(284,318)
Financing	0	0
Other Changes:		
2023 Pay raise		54
2024 Pay raise		187
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023	0	0
Change in compensable days		18
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		(8)
Thrift Savings Plan		(5)
Federal Insurance Contribution Act (FICA) -OASDI		2
Health insurance		5
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		1,081
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		16
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>1,350</u>
Total, adjustments to base	<u>(3)</u>	<u>(282,968)</u>

Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Broadband Connectivity Fund

Line Item		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Tribal Grants	Pos./BA	0	\$1,960,000	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl	0	1,359,021	0	652,635	0	371,232	0	371,232	0	0
Tribal Admin	Pos./BA	13	40,000	22	0	20	0	20	0	0	0
	FTE/Obl	11	6,851	21	17,338	20	15,792	20	15,792	0	0
Infrastructure Broadband	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl	0	282,785	0	0	0	0	0	0	0	0
Broadband Connectivity Admin	Pos./BA	7	0	6	0	5	0	5	0	0	0
	FTE/Obl	4	1,948	5	2,337	5	2,318	5	2,318	0	0
Total	Pos./BA	20	2,000,000	28	0	25	0	25	0	0	0
	FTE/Obl	15	1,650,605	26	672,310	25	389,342	25	389,342	0	0

**Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund - Mandatory Account
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Broadband Connectivity Fund

Goal Statement

The Broadband Connectivity Grants will expand broadband infrastructure to areas of the United States that lack access, especially rural areas and tribal lands. The grants that expand broadband deployment on tribal lands will support telehealth, distance learning, broadband affordability, and digital inclusion to tribal communities.

Base Program

The National Telecommunications and Information Administration will award up to \$3.27 billion in Broadband Connectivity Grants to expand access to and adoption of broadband service to underserved areas of the United States.

The Tribal Broadband Connectivity Program will award up to \$2.940 billion in grants to eligible entities, which include a Tribal Government, a Tribal College or University, the Department of Hawaiian Homelands on behalf of the Native Hawaiian Community, including Native Hawaiian Education Programs, a Tribal organization, or a Native Corporation. These funds will be used for the deployment and adoption of broadband service on Tribal land and for programs that promote the use of broadband for telehealth, distance learning, broadband affordability, and digital inclusion to tribal communities. This includes \$980 million from the Consolidated Appropriations Act, 2021, and \$1.96 billion from the Infrastructure Investment and Jobs Act.

The Broadband Infrastructure Program will award up to \$288 million in grants to covered partnerships for covered broadband projects. The term “covered partnership” means a partnership between a State or political subdivision of a state and a provider of fixed broadband service. The term “covered broadband project” means a competitively and technologically neutral project for the deployment of fixed broadband service that provides qualifying broadband service in an eligible

service area. The term “qualifying broadband service” means broadband service with— (A) a download speed of not less than 25 megabits per second; (B) an upload speed of not less than 3 megabits per second; and (C) a latency sufficient to support real time, interactive applications.

Service area is defined as a census block in which broadband service is not available at 1 or more households or businesses in the census block, as determined by NTIA on the basis of— (A) the maps created under section 802(c)(1) of the Communications Act of 1934 (47 U.S.C. 642(c)(1)); or (B) if the maps described in subparagraph are not available, the most recent information available to NTIA, including information provided by the Federal Communications Commission.

Statement of Operating Objectives

The Consolidated Appropriations Act, 2021, established NTIA’s Broadband Connectivity Programs and provided \$1 billion to implement Tribal Broadband Connectivity grants and \$300 million to implement Broadband Infrastructure grants. The Infrastructure Investment and Jobs Act, 2022 directs NTIA to award an additional \$2 billion in Tribal Broadband Connectivity grants to tribal governments for broadband deployment on tribal lands, as well as for telehealth, distance learning, broadband affordability, and digital inclusion.

In FY 2024, NTIA will provide oversight of and technical assistance to grant recipients of Broadband Infrastructure Program to ensure the success of awarded projects. NTIA will continue with grants oversight and technical assistance for the Broadband Infrastructure Program to ensure the protection of Federal funds from waste, fraud, and abuse, as well as to assist recipients with project challenges. Funds for oversight and technical assistance related to these grants will come from the original fund for the Broadband Infrastructure Connectivity Program and from NTIA’s Salaries and Expenses and the Infrastructure Investment and Jobs Act for the Tribal Broadband Connectivity Program. In FY 2024, NTIA will also review applications received under the second Tribal Broadband Connectivity Program Notice of Funding Opportunity, to be released in FY 2023.

Explanation and Justification

In FY 2022, NTIA completed the award of approximately \$980 million in Tribal Broadband Connectivity grants and \$288 million in Broadband Infrastructure Program grants from the Consolidated Appropriations Act, 2021, and began post-award oversight responsibilities. NTIA also awarded an additional \$380 million in Tribal Broadband Connectivity grants from the Infrastructure Investment and Jobs Act and secured the necessary staff and contractor resources to carry out these

responsibilities. Funds appropriated by Congress under the Consolidated Appropriations Act, 2021, are being used to implement and administer the Broadband Infrastructure Program and funds from Consolidated Appropriations Act, 2021, and the Infrastructure Investment and Jobs Act, 2022, are being used to implement and administer Tribal Broadband Connectivity Program.

In FY 2023, NTIA will continue to award an additional \$650 million in grants from applications received in the initial Tribal Broadband Connectivity Notice of Funding Opportunity. NTIA will release a second Notice of Funding Opportunity to establish a second grant competition for the Tribal Broadband Connectivity Program to complete the award of approximately \$900 million in Tribal Broadband Connectivity grants. NTIA also will continue with post-award oversight responsibilities for both programs. This includes technical assistance to help recipients navigate through technical challenges, Federal grants administration requirements, and environmental and historic preservation regulations.

In FY 2024, NTIA will receive, review, and award applications associated with the second Notice of Funding Opportunity. NTIA will continue oversight activities to help protect the Federal investment and ensure accountability for these broadband connectivity grants. NTIA also will continue to provide technical assistance to help recipients navigate through technical challenges, Federal grants administration requirements, and environmental and historic preservation regulations.

Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Broadband Connectivity Fund

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$2,490	\$3,634	\$3,575	\$3,575	\$0
11.3 Other than full-time permanent	373	0	0	0	0
11.5 Other personnel compensation	0	65	0	0	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	2,863	3,699	3,575	3,575	0
12.1 Civilian personnel benefits	940	1,071	1,180	1,180	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	67	0	1,068	1,068	0
22 Transportation of things	0	2	0	0	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	0	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	0	7,003	5,902	5,902	0
25.2 Other services from non-Federal sources	4,112	648	679	679	0
25.3 Purchase of goods and services from Gov't accounts	813	7,252	5,706	5,706	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
26 Supplies and materials	3	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
31 Equipment	1	0	0	0	0
32 Lands and structures	0	0	0	0	0
41 Grants, subsidies and contributions	1,641,806	652,635	371,232	371,232	0
94 Expenditure Transfer	0	0	0	0	0
99.9 Total Obligations	1,650,605	672,310	389,342	389,342	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	(1,288,700)	(1,638,095)	(965,785)	(965,785)	0
Unobligated balance transferred	0	0	0	0	
Unobligated balance, end of year	1,638,095	965,785	576,443	576,443	
Unobligated balance expiring	0	0	0	0	
Total Budget Authority	2,000,000	0	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	15	26	25	25	0
Other than full-time permanent	0	0	0	0	0
Total	15	26	25	25	0
Authorized Positions:					
Full-time permanent	20	28	25	25	0
Other than full-time permanent	0	0	0	0	0
Total	20	28	25	25	0

**Department of Commerce
National Telecommunications and Information Administration
Broadband Connectivity Fund
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$0	\$7,003	\$5,902
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	0	7,003	5,902

Exhibit 5

**Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)**

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	11	9	\$0	\$250,487
2024 Adjustments to base:	0	0	0	509
plus: inflationary adjustments to base	0	0	0	(247,341)
plus: adjustment for FY 2024 program requirements	0	0	0	0
2024 Base	11	9	0	3,655
plus: 2024 Program changes	0	0	0	0
2024 Estimate	11	9	0	3,655

		2022		2023		2024		2024		Increases/Decreases	
		Actual		Enacted		Base		Estimate		from 2024 Base	
Comparison by activity/subactivity: with totals by activity											
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Connecting Minority Communities Grants	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	21,001	0	246,899	0	0	0	0	0	0
Connecting Minority Communities Program Admin	Pos./BA	7	0	11	0	11	0	11	0	0	0
	FTE/Obl.	6	3,340	9	3,588	9	3,655	9	3,655	0	0
Total	Pos./BA	7	0	11	0	11	0	11	0	0	0
	FTE/Obl.	6	24,341	9	250,487	9	3,655	9	3,655	0	0
Adjustments for:											
Recoveries			0		0		0		0		0
Unobligated balance, start of year			(279,131)		(254,790)		(4,303)		(4,303)		0
Unobligated balance transferred			0		0		0		0		0
Unobligated balance, end of year			254,790		4,303		648		648		0
Unobligated balance expiring			0		0		0		0		0
Financing from transfers:											
Transfer from other accounts (-)			0		0		0		0		0
Transfer to other accounts (+)			0		0		0		0		0
Appropriation			0		0		0		0		0

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:
Connecting Minority Communities

		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>											
Connecting Minority Communities	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	100	0	100	0	100	0	100	0	0
Total, Reimbursable Projects	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	100	0	100	0	100	0	100	0	0

Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	0	(247,341)
Financing	0	0
 Other Changes:		
2023 Pay raise		17
2024 Pay raise		58
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023	0	0
Change in compensable days		6
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		(2)
Thrift Savings Plan		(1)
Federal Insurance Contribution Act (FICA) - OASDI		1
Health insurance		2
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		424
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		4
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>509</u>
Total, adjustments to base	<u>0</u>	<u>(246,832)</u>

Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Connecting Minority Communities

Line Item		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Connecting Minority Communities	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Grants	FTE/Obl	0	21,001	0	246,899	0	0	0	0	0	0
Connecting Minority Communities	Pos./BA	7	0	11	0	11	0	11	0	0	0
Program Admin	FTE/Obl	6	3,340	9	3,588	9	3,655	9	3,655	0	0
Total	Pos./BA	7	0	11	0	11	0	11	0	0	0
	FTE/Obl	6	24,341	9	250,487	9	3,655	9	3,655	0	0

**Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities Fund - Mandatory Account
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Connecting Minority Communities Fund

Goal Statement

The Connecting Minority Communities Pilot Grants will expand broadband access and connectivity to Historically Black Colleges and Universities (HBCUs), Tribal Colleges and Universities (TCUs), and minority serving institutions (MSIs), or a consortium that is led by one of these institutions.

Base Program

The National Telecommunications and Information Administration will have awarded approximately \$268 million in grants under the Connecting Minority Communities Pilot Program. These funds will go to Historically Black Colleges and Universities (HBCUs), Tribal Colleges and Universities (TCUs), and minority serving institutions and related eligible entities for the purchase of broadband internet access service, equipment, training, and information technology. The grants help to facilitate education and remote learning, as well as for the operations of these institutions and minority enterprises within their anchor communities.

Statement of Operating Objectives

The Consolidated Appropriations Act, 2021, established NTIA's Connecting Minority Communities Pilot Program and provided \$285 million to implement the program. In FY 2024, NTIA will provide oversight of and technical assistance to grant recipients of the program to ensure the success of awarded projects.

Explanation and Justification

In FY 2022, NTIA developed the Connecting Minority Community Pilot Program Notice of Funding Opportunity (NOFO), conducted stakeholder engagement, provided technical assistance to prospective applicants, and received applications in response to the Notice of Funding Opportunity. NTIA reviewed the more than 200 applications and began awarding grants in late FY 2022.

In FY 2023, NTIA awarded approximately \$263 million in Connecting Minority Communities Pilot grants. The remainder of the funds authorized by Congress is being used to implement and administer the program. NTIA's oversight activities will help protect the Federal investment in and ensure accountability of these pilot grants. NTIA also will provide technical assistance to help recipients navigate through technical challenges and Federal grants administration requirements.

In FY 2024, NTIA will continue oversight activities to help protect the Federal investment and ensure accountability for grants. NTIA also will continue to provide technical assistance to help recipients navigate through technical challenges and Federal grants administration requirements.

Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Connecting Minority Communities

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$866	\$1,054	\$1,109	\$1,109	\$0
11.3 Other than full-time permanent	190	81	0	0	0
11.5 Other personnel compensation	0	28	28	28	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	1,056	1,163	1,137	1,137	0
12.1 Civilian personnel benefits	344	384	384	384	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	16	0	0	0	0
22 Transportation of things	0	1	1	1	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	0	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	0	902	42	42	0
25.2 Other services from non-Federal sources	1,041	42	829	829	0
25.3 Purchase of goods and services from Gov't accounts	881	1,095	1,261	1,261	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26 Supplies and materials	1	1	1	1	0
31 Equipment	1	0	0	0	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	21,001	246,899	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
94 Expenditure Transfer	0	0	0	0	0
99.9 Total Obligations	24,341	250,487	3,655	3,655	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	(279,131)	(254,790)	(4,303)	(4,303)	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	254,790	4,303	648	648	0
Unobligated balance expiring	0	0	0	0	0
Total Budget Authority	0	0	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	6	9	9	9	0
Other than full-time permanent	0	0	0	0	0
Total	6	9	9	9	0
Authorized Positions:					
Full-time permanent	7	11	11	11	0
Other than full-time permanent	0	0	0	0	0
Total	7	11	11	11	0

**Department of Commerce
National Telecommunications and Information Administration
Connecting Minority Communities
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$0	\$902	\$42
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	0	902	42

Exhibit 5

**Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)**

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	115	106	\$0	\$4,502,788
2024 Adjustments to base:				
plus: inflationary adjustments to base	0	0	0	6,409
plus: adjustment for FY 2024 program requirements	0	0	0	32,788,373
2024 Base	115	106	0	37,297,570
plus: 2024 Program changes	0	0	0	0
2024 Estimate	115	106	0	37,297,570

	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Comparison by activity/subactivity: with totals by activity											
Broadband Equity, Access, and Deployment Grants	Pos./BA	0	\$41,601,000	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	11,381	0	4,390,700	0	37,198,919	0	37,198,919	0	0
Broadband Equity, Access, and Deployment Admin	Pos./BA	74	837,000	115	0	115	0	115	0	0	0
	FTE/Obl.	24	55,433	106	112,088	106	98,651	106	98,651	0	0
Total	Pos./BA	74	42,438,000	115	0	115	0	115	0	0	0
	FTE/Obl.	24	66,814	106	4,502,788	106	37,297,570	106	37,297,570	0	0
Adjustments for:											
Recoveries			0	0		0		0		0	0
Unobligated balance, start of year			0	(42,371,186)		(37,868,398)		(37,868,398)			
Unobligated balance transferred			0	0		0		0			0
Unobligated balance, end of year			42,371,186	37,868,398		570,828		570,828			
Unobligated balance expiring			0	0		0		0			0
Financing from transfers:											
Transfer from other accounts (-)			0	0		0		0			0
Transfer to other accounts (+)			12,000	0		0		0			0
Appropriation			42,450,000	0		0		0			0

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
Broadband Equity, Access, and Deployment		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>											
Broadband Equity, Access, and Deployment	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	250	0	250	0	250	0	250	0	0
Total, Reimbursable Projects	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	250	0	250	0	250	0	250	0	0

Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	0	32,781,964
Financing	0	0
Other Changes:		
2023 Pay raise		218
2024 Pay raise		752
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023	0	0
Change in compensable days		75
Civil Service Retirement System (CSRS)		(1)
Federal Employees Retirement System (FERS)		(31)
Thrift Savings Plan		(18)
Federal Insurance Contribution Act (FICA) - OASDI		9
Health insurance		22
Employees Compensation Fund		40
Travel:		2
Mileage		34
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		2
Postage		4,439
Working Capital Fund, Departmental Management		[0]
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		866
General Pricing Level Adjustment		0
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	0	6,409
Total, adjustments to base	0	32,788,373

Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Broadband Equity, Access, and Deployment

Line Item		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Broadband Equity, Access, and Deployment Grants	Pos./BA	0	\$41,601,000	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl	0	11,381	0	4,390,700	0	37,198,919	0	37,198,919	0	0
Broadband Equity, Access, and Deployment Admin	Pos./BA	74	\$837,000	115	\$0	115	\$0	115	\$0	0	\$0
	FTE/Obl	24	55,433	106	112,088	106	98,651	106	98,651	0	0
Total	Pos./BA	74	42,438,000	115	0	115	0	115	0	0	0
	FTE/Obl	24	66,814	106	4,502,788	106	37,297,570	106	37,297,570	0	0

**Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Broadband Equity, Access, and Deployment

Goal Statement

The Broadband Equity, Access, and Deployment Grants will expand broadband access and connectivity through grant funds awarded to States and Territories to fund broadband deployment and digital equity projects to bridge the digital divide.

Base Program

The National Telecommunications and Information Administration (NTIA) will award up to \$41.6 billion in formula grants under the Broadband Equity, Access, and Deployment program. This program builds upon the broadband assistance programs that NTIA is administering from the Consolidated Appropriations Act, 2021. These funds will be awarded to States and Territories for broadband equity, access, and deployment projects to bridge the digital divide.

Statement of Operating Objectives

The Infrastructure Investment and Jobs Act, 2022, established NTIA's Broadband Equity, Access, and Deployment program and provided \$42.5 billion to implement the program. In FY 2023, NTIA will provide oversight of and technical assistance to grant recipients of the program to ensure the success of awarded projects.

Explanation and Justification

Efforts to implement the program in FY 2022 included the development of the program strategy, release of the Notice of Funding Opportunity and application guidance, stakeholder engagement, and pre-award technical assistance for prospective applicants. NTIA conducted stakeholder outreach and technical assistance to assist States and other stakeholders to plan for investments

to address broadband deployment and digital equity initiatives. NTIA reviewed applications for initial planning funds and completed the award of approximately \$255 million in grants to States and Territories to fund broadband planning activities, including a 5-Year Action Plan and Initial Proposals for each State and Territory. NTIA has in place the necessary staff and contractor resources to implement the program.

In FY 2023, NTIA's oversight activities will help protect the Federal investment in and ensure accountability of these grants. NTIA also will provide technical assistance to help recipients navigate through technical challenges and Federal grants administration requirements and provide Technical Assistance to support States and Territories with the development of their Initial Proposals. NTIA may start to award additional funds to States and Territories that have completed Initial Proposals and continue Technical Assistance to States and Territories in their development and formal request through Final Proposals for the balance of BEAD funding.

In FY 2024, NTIA will review Final Proposals submitted by States and Territories, representing State and Territory use of the bulk of the BEAD funds for broadband deployment and digital equity projects. During this year, all the BEAD funds will have been awarded and States and Territories will be implementing their Final Proposals through their subgrants. NTIA will need to continue to provide robust technical assistance on broadband engineering/deployment topics, project sustainability, environmental and historic preservation, permitting, Federal grants management, and support for subrecipient monitoring. NTIA will also continue its oversight of these Federal investments to ensure accountability of these grants and that intended outcomes of the awarded projects are achieved.

Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Broadband Equity, Access, and Deployment

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$4,052	\$14,460	\$15,212	\$15,212	\$0
11.3 Other than full-time permanent	135	140	147	147	0
11.5 Other personnel compensation	40	365	365	365	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	4,227	14,965	15,724	15,724	0
12.1 Civilian personnel benefits	1,208	4,966	4,966	4,966	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	275	3,772	1,772	1,772	0
22 Transportation of things	1	30	0	0	0
23.1 Rental payments to GSA	260	108	0	0	0
23.2 Rental payments to others	0	634	634	634	0
23.3 Commun., util., and misc. charges	0	69	0	0	0
24 Printing and reproduction	7	100	0	0	0
25.1 Advisory and assistance services	11,952	34,359	29,359	29,359	0
25.2 Other services from non-Federal sources	31,090	25,455	24,635	24,635	0
25.3 Purchase of goods and services from Gov't account	5,429	9,928	9,928	9,928	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26 Supplies and materials	28	181	0	0	0
31 Equipment	961	17,521	11,633	11,633	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	11,376	4,390,700	37,198,919	37,198,919	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
94 Expenditure Transfer	0	0	0	0	0
99.9 Total Obligations	66,814	4,502,788	37,297,570	37,297,570	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	0	(42,371,186)	(37,868,398)	(37,868,398)	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	42,371,186	37,868,398	570,828	570,828	0
Unobligated balance expiring	0	0	0	0	0
Total Budget Authority	42,438,000	0	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	24	106	106	106	9
Other than full-time permanent	0	0	0	0	0
Total	24	106	106	115	9
Authorized Positions:					
Full-time permanent	74	115	115	115	0
Other than full-time permanent	0	0	0	0	0
Total	74	115	115	115	0

**Department of Commerce
National Telecommunications and Information Administration
Broadband Equity, Access, and Deployment
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$11,952	\$34,359	\$29,359
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	11,952	34,359	29,359

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)

	Positions	FTE	Budget Authority	Direct Obligations
President's Budget, 2023	13	13	\$549,000	\$52,184
2024 Adjustments to base:	0	0	0	0
plus: inflationary adjustments to base	0	0	0	745
plus: adjustment for FY 2024 program requirements	13	13	0	1,523,089
2024 Base	26	26	549,000	1,576,018
plus: 2024 Program changes	0	0	0	0
2024 Estimate	26	26	549,000	1,576,018

		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Comparison by activity/subactivity:											
with totals by activity											
Digital Equity Grants	Pos./BA	0	\$539,000	0	\$539,000	0	\$539,000	0	\$539,000	0	\$0
	FTE/Obl.	0	13,672	0	39,936	0	1,563,392	0	1,563,392	0	0
Digital Equity Admin ¹	Pos./BA	8	10,000	13	10,000	26	10,000	26	10,000	0	0
	FTE/Obl.	3	5,126	13	12,248	26	12,626	26	12,626	0	0
Total	Pos./BA	8	549,000	13	549,000	26	549,000	26	549,000	0	0
	FTE/Obl.	3	18,798	13	52,184	26	1,576,018	26	1,576,018	0	0
Adjustments for:											
Recoveries			0		0		0		0		0
Unobligated balance, start of year			0		(530,202)		(1,027,018)		(1,027,018)		0
Unobligated balance transferred			0		0		0		0		0
Unobligated balance, end of year			530,202		1,027,018		0		0		0
Unobligated balance expiring			0		0		0		0		0
Financing from transfers:											
Transfer from other accounts (-)			0		0		0		0		0
Transfer to other accounts (+)			1,000		1,000		1,000		1,000		0
Appropriation			550,000		550,000		550,000		550,000		0

¹For FY 2024, additional funds for administrative expenses are requested in the Broadband Programs initiative, Grant Monitoring and Oversight, in the Salaries and Expenses account.

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
SUMMARY OF REIMBURSABLE OBLIGATIONS
(Dollar amounts in thousands)

Comparison by activity:		2022		2023		2024		2024		Increase/Decrease	
		Enacted		Enacted		Base		Estimate		from 2024 Base	
Digital Equity		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
<u>Reimbursable Projects</u>											
Digital Equity	Pos./BA	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	250	0	250	0	250	0	250	0	0
Total, Reimbursable Projects	Pos./BA	0	0	0	0	0	0	0	0	0	0
	FTE/Obl.	0	250	0	250	0	250	0	250	0	0

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	13	1,523,089
Financing	0	0
 Other Changes:		
2023 Pay raise		26
2024 Pay raise		90
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023	0	0
Change in compensable days		9
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		(4)
Thrift Savings Plan		(2)
Federal Insurance Contribution Act (FICA) - OASDI		1
Health insurance		3
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		502
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		120
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>745</u>
Total, adjustments to base	<u>13</u>	<u>1,523,834</u>

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Digital Equity

Line Item		2022		2023		2024		2024		Increase/Decrease	
		Actual		Enacted		Base		Estimate		from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Digital Equity Grants	Pos./BA	0	\$539,000	0	\$539,000	0	\$539,000	0	\$539,000	0	\$0
	FTE/Obl	0	\$13,672	0	\$39,936	0	\$1,563,392	0	\$1,563,392	0	\$0
Digital Equity Admin	Pos./BA	8	\$10,000	13	\$10,000	26	\$10,000	26	\$10,000	0	\$0
	FTE/Obl	3	5,126	13	12,248	26	12,626	26	12,626	0	0
Total	Pos./BA	8	549,000	13	549,000	26	549,000	26	549,000	0	0
	FTE/Obl	3	18,798	13	52,184	26	1,576,018	26	1,576,018	0	0

**Department of Commerce
National Telecommunications and Information Administration
Digital Equity
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Digital Equity

Goal Statement

The Digital Equity Grant program will promote the achievement of digital equity, support digital inclusion activities, and build capacity for efforts by States and communities to promote the adoption of broadband. Additionally, these grant programs will support efforts to achieve digital equity, promote digital inclusion activities, and spur greater adoption of broadband among covered populations.

Base Program

The National Telecommunications and Information Administration (NTIA) will award up to \$2.75 billion in State Digital Equity Capacity grants and Digital Equity Competitive grants under the Digital Equity program. This program builds upon the broadband assistance programs that NTIA is administering from the Consolidated Appropriations Act, 2021.

Statement of Operating Objectives

The Infrastructure Investment and Jobs Act, 2022, established NTIA's Digital Equity programs and provided \$2.75 billion to implement the program. In FY 2022, NTIA issued a Notice of Funding Opportunity to allow states, territories, and tribal entities to submit applications for Digital Equity Planning grants. NTIA also conducted stakeholder engagement and technical assistance to inform and assist States and eligible entities with their applications. NTIA reviewed and started making Planning Grant awards in FY 2022.

In FY 2023, NTIA will provide oversight of the planning grants, and provide technical assistance to recipients as they carry out the planning projects and submit their Digital Equity Plans. NTIA also will engage in planning and policy development activities, including preparing to release a Notice of Funding Opportunity, application, and prepare to provide pre-award technical assistance for the

FY 2024 launch of the State Digital Equity Capacity Grant program to allow States, Territories, and tribal entities implement their respective Digital Equity Plans.

In FY 2024, NTIA will release the State Digital Equity Capacity NOFO and review applications associated with this NOFO and award funds appropriated for FY 2022-2024 in Infrastructure Investment and Jobs Act, 2022, to States, Territories, and tribal governments. NTIA will also implement a robust post award monitoring and technical assistance provide oversight of these federal investments to ensure accountability of these grants and that intended outcomes of the awarded projects are achieved. NTIA will also develop a Digital Equity Competitive Grant program Notice of Funding Opportunity, representing the FY 2022-2024 funds in the Infrastructure Investment and Jobs Act, 2022, for the Competitive program, including developing an application and developing pre-award technical assistance to support applicants to this competitive grant program in late FY 2024. NTIA will receive applications associated with the Digital Equity Competitive Notice of Funding Opportunity in FY 2025.

Explanation and Justification

Efforts to implement the program in FY 2022 included the development of the program strategy, release of the Notice of Funding Opportunity and application guidance, stakeholder engagement, and pre-award technical assistance for prospective applicants. NTIA secured the necessary staff and contractor resources to implement the program. NTIA conducted stakeholder outreach and technical assistance to assist States and other stakeholders plan for investments to address digital equity. NTIA reviewed the applications and began making awards to States for grants to develop State Digital Equity Plans.

In FY 2023, NTIA will award the remaining funds associated with the State Digital Equity Planning Program (approximately \$60 million in total) and continue its oversight activities to help protect the Federal investment in and ensure accountability of these grants. NTIA will also provide technical assistance to help recipients navigate through technical implementation and grants administration challenges. NTIA also will engage in planning and policy development activities, including developing a Notice of Funding Opportunity, application, and pre-award technical assistance materials in FY 2023 for the FY 2024 launch of the State Digital Equity Capacity Grant program to allow States, Territories, and tribal entities implement their respective Digital Equity Plans.

In FY 2024, NTIA will launch the State Digital Equity Capacity program, provide pre-award technical assistance, and review applications associated with this NOFO and award funds (up to \$840 million) to States, Territories, and tribal governments. NTIA will also implement robust post award monitoring and technical assistance to provide oversight and support of these Federal investments to ensure accountability of these grants and that intended outcomes of the awarded projects are achieved for the projects. NTIA will also work to develop a Digital Equity Competitive Grant program Notice of Funding Opportunity, including developing an application and developing pre-award technical assistance materials to support applicants for this competitive grant program for launch in late FY 2024. NTIA will receive applications associated with the Digital Equity Competitive Notice of Funding Opportunity in FY 2025.

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Digital Equity

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$490	\$1,729	\$3,806	\$3,806	\$0
11.3 Other than full-time permanent	22	15	0	0	0
11.5 Other personnel compensation	5	3	0	0	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	517	1,747	3,806	3,806	0
12.1 Civilian personnel benefits	169	576	1,257	1,257	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	36	2	0	0	0
22 Transportation of things	0	0	0	0	0
23.1 Rental payments to GSA	20	8	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	5	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	786	2,916	3,000	3,000	0
25.2 Other services from non-Federal sources	2,592	5,522	2,238	2,238	0
25.3 Purchase of goods and services from Gov't accounts	937	1,076	2,325	2,325	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	32	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26 Supplies and materials	2	2	0	0	0
31 Equipment	67	362	0	0	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	13,672	39,936	1,563,392	1,563,392	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
94 Expenditure Transfer	0	0	0	0	0
99.9 Total Obligations	18,798	52,184	1,576,018	1,576,018	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	0	(530,202)	(1,027,018)	(1,027,018)	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	530,202	1,027,018	0	0	0
Unobligated balance expiring	0	0	0	0	0
Total Budget Authority	549,000	549,000	549,000	549,000	0
 Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	3	13	26	26	0
Other than full-time permanent	0	0	0	0	0
Total	3	13	26	26	0
 Authorized Positions:					
Full-time permanent	8	13	26	26	0
Other than full-time permanent	0	0	0	0	0
Total	8	13	26	26	0

Department of Commerce
National Telecommunications and Information Administration
Digital Equity
ADVISORY AND ASSISTANCE SERVICES

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$786	\$2,916	\$3,000
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	786	2,916	3,000

Exhibit 5

**Department of Commerce
National Telecommunications and Information Administration
Middle Mile
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)**

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	16	15	\$0	\$989,821
Less: adjustment for one-time appropriation	0	0	0	0
2024 Adjustments to base:				
plus: inflationary adjustments to base	0	0	0	811
plus: adjustment for FY 2024 program requirements	(16)	(15)	0	(989,390)
2024 Base	0	0	0	1,242
plus: 2024 Program changes	0	0	0	0
2024 Estimate	0	0	0	1,242

	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base	
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Comparison by activity/subactivity: with totals by activity										
Middle Mile Grants	Pos./BA	0 \$980,000	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
	FTE/Obl.	0 0	0 980,000	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Middle Mile Admin ¹	Pos./BA	13 19,000	16 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	FTE/Obl.	5 7,937	15 9,821	0 1,242	0 1,242	0 1,242	0 1,242	0 1,242	0 0	0 0
Total	Pos./BA	13 999,000	16 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
	FTE/Obl.	5 7,937	15 989,821	0 1,242	0 1,242	0 1,242	0 1,242	0 1,242	0 0	0 0
Adjustments for:										
Recoveries		0	0	0	0	0	0	0	0	0
Unobligated balance, start of year		0	(991,063)	(1,242)	(1,242)	(1,242)	(1,242)	(1,242)		
Unobligated balance transferred		0	0	0	0	0	0	0		
Unobligated balance, end of year		991,063	1,242	0	0	0	0	0		
Unobligated balance expiring		0	0	0	0	0	0	0		
Financing from transfers:										
Transfer from other accounts (-)		0	0	0	0	0	0	0		
Transfer to other accounts (+)		1,000	0	0	0	0	0	0		
Appropriation		1,000,000	0	0	0	0	0	0		

¹For FY 2024, additional funds for administrative expenses are requested in the Broadband Programs initiative, Grant Monitoring and Oversight, in the Salaries and Expenses account.

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Middle Mile
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment	(16)	(989,390)
Financing	0	0
Other Changes:		
2023 Pay raise		34
2024 Pay raise		117
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023	0	0
Change in compensable days		12
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		(5)
Thrift Savings Plan		(3)
Federal Insurance Contribution Act (FICA) - OASDI		1
Health insurance		3
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		618
Cybersecurity [Non-Add in WCF]		0
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		34
Telecommunications Services - Enterprise Infrastructure Services		0
Enterprise Services		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>811</u>
Total, adjustments to base	<u>(16)</u>	<u>(988,579)</u>

Department of Commerce
National Telecommunications and Information Administration
Middle Mile
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Middle Mile

Line Item	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Pos./BA	0	\$980,000	0	\$0	0	\$0	0	\$0	0	\$0
Middle Mile Grants	FTE/Obl	0	0	0	980,000	0	0	0	0	0
Pos./BA	13	19,000	16	0	0	0	0	0	0	0
Middle Mile Admin	FTE/Obl	5	7,937	15	9,821	0	1,242	0	1,242	0
Total	Pos./BA	13	999,000	16	0	0	0	0	0	0
	FTE/Obl	5	7,937	15	989,821	0	1,242	0	1,242	0

**Department of Commerce
National Telecommunications and Information Administration
Middle Mile Deployment
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Middle Mile Deployment

Goal Statement

The Middle Mile Grant program will expand and extend middle mile infrastructure to reduce costs and establish connection resiliency for broadband networks to unserved and underserved areas.

Base Program

The National Telecommunications and Information Administration (NTIA) will award up to \$980 million in competitive grants under the Middle Mile program to expand and extend connection resiliency for broadband networks to unserved and underserved areas. This program builds upon the broadband assistance programs that NTIA is administering from the Consolidated Appropriations Act, 2021.

Statement of Operating Objectives

The Infrastructure Investment and Jobs Act, 2022, established NTIA's Middle Mile program and provided \$1 billion to implement the program. In FY 2024, grant recipients of this program will continue to implement their awarded projects.

Explanation and Justification

Efforts to implement the program in FY 2022 included the development of the program strategy, release of the Notice of Funding Opportunity and application guidance, stakeholder engagement, and pre-award technical assistance for prospective applicants.

Exhibit 12

NTIA secured the necessary staff and contractor resources to implement the program and conducted stakeholder outreach and technical assistance to assist prospective applicants in the submission of their applications for middle mile infrastructure. In FY 2023, NTIA will conduct a competitive review of applications, award \$980 million in Middle Mile Grants, and initiate grants oversight and technical assistances as recipients start these construction projects. In FY 2024, recipients of grants from the program will continue to carry out the implementation of their projects.

Department of Commerce
National Telecommunications and Information Administration
Middle Mile
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Middle Mile

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease 2024
11.1 Full-time permanent (Compensation)	\$550	\$2,267	\$0	\$0	\$0
11.3 Other than full-time permanent	6	4	0	0	0
11.5 Other personnel compensation	7	6	0	0	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	563	2,277	0	0	0
12.1 Civilian personnel benefits	194	750	0	0	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	6	4	0	0	0
22 Transportation of things	0	0	0	0	0
23.1 Rental payments to GSA	44	18	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	12	0	0	0
24 Printing and reproduction	0	0	0	0	0
25.1 Advisory and assistance services	261	4,050	0	0	0
25.2 Other services from non-Federal sources	6,228	1,401	0	0	0
25.3 Purchase of goods and services from Gov't accounts	543	1,098	1,242	1,242	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	77	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease 2024
26 Supplies and materials	5	3	0	0	0
31 Equipment	93	131	0	0	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	980,000	0	0	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	7,937	989,821	1,242	1,242	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	0	(991,063)	(1,242)	(1,242)	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	991,063	1,242	0	0	0
Unobligated balance expiring	0	0	0	0	0
Total Budget Authority	999,000	0	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	5	15	0	0	0
Other than full-time permanent	0	0	0	0	0
Total	5	15	0	0	0
Authorized Positions:					
Full-time permanent	13	16	0	0	0
Other than full-time permanent	0	0	0	0	0
Total	13	16	0	0	0

**Department of Commerce
National Telecommunications and Information Administration
Middle Mile
ADVISORY AND ASSISTANCE SERVICES**

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$261	\$4,050	\$0
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	261	4,050	0

THIS PAGE INTENTIONALLY LEFT BLANK.

Exhibit 5

**Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund
SUMMARY OF RESOURCE REQUIREMENTS
(Dollar amounts in thousands)**

	Positions	FTE	Budget Authority	Direct Obligations
Enacted, 2023	10	7	\$1,330,000	\$80,000
Less: adjustment for one-time appropriation	0	0	(\$1,330,000)	\$0
2024 Adjustments to base:				
plus: inflationary adjustments to base	0	0	0	456
plus: adjustment for FY 2024 program requirements	12	15	0	169,544
2024 Base	22	22	0	250,000
plus: 2024 Program changes	0	0	0	0
2024 Estimate	22	22	0	250,000

	2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increases/Decreases from 2024 Base		
	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	
Comparison by activity/subactivity: with totals by activity											
Innovation Fund - Grants	Pos./BA	0	\$140,500	0	\$1,262,500	0	\$0	0	\$0	0	\$0
	FTE/Obl.	0	0	0	72,500	0	240,705	0	240,705	0	0
Innovation Fund - Admin	Pos./BA	0	7,500	10	67,500	22	0	22	0	0	0
	FTE/Obl.	0	0	7	7,500	22	9,295	22	9,295	0	0
Total	Pos./BA	0	148,000	10	1,330,000	22	0	22	0	0	0
	FTE/Obl.	0	0	7	80,000	22	250,000	22	250,000	0	0
Adjustments for:											
Recoveries			0	0		0		0		0	0
Unobligated balance, start of year			0	(148,000)		(1,398,000)		(1,398,000)		0	0
Unobligated balance transferred			0	0		0		0		0	0
Unobligated balance, end of year			148,000	1,398,000		1,148,000		1,148,000		0	0
Unobligated balance expiring			0	0		0		0		0	0
Financing from transfers:											
Transfer from other accounts (-)			0	0		0		0		0	0
Transfer to other accounts (+)			2,000	20,000		0		0		0	0
Appropriation			150,000	1,350,000		0		0		0	0

THIS PAGE INTENTIONALLY LEFT BLANK.

Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund
ADJUSTMENTS TO BASE
(Dollar amounts in thousands)

	<u>Positions</u>	<u>Amount</u>
Transfers	0	\$0
Adjustment for FY 2024 program requirements	12	169,544
Financing	0	0
Other Changes:		
2023 Pay raise		14
2024 Pay raise		49
Awards		0
Full-year cost in 2024 of positions financed for part-year in 2023 (0 FTE)	0	0
Change in compensable days		5
Civil Service Retirement System (CSRS)		0
Federal Employees Retirement System (FERS)		(2)
Thrift Savings Plan		(1)
Federal Insurance Contribution Act (FICA) - OASDI		1
Health insurance		1
Employees Compensation Fund		0
Travel:		0
Mileage		0
Per diem		0
Rental payments to GSA		0
GSA Furniture and IT Program (FIT)		0
Postage		0
Working Capital Fund, Departmental Management		386
Cybersecurity [Non-Add in WCF]		[0]
National Archives and Records Administration (NARA)		0
General Pricing Level Adjustment		3
Enterprise Infrastructure Services		0
Enterprise Services Direct Billing		0
Commerce Business System		0
Federal Protective Service		0
Other changes unique to certain bureaus (e.g., grants, ship and aircraft costs)		0
Subtotal, other changes	<u>0</u>	<u>456</u>
Total, adjustments to base	<u>12</u>	<u>170,000</u>

Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund
PROGRAM AND PERFORMANCE: DIRECT OBLIGATIONS
(Dollar amounts in thousands)

Activity: Public Wireless Supply Chain Innovation Fund

Line Item		2022 Actual		2023 Enacted		2024 Base		2024 Estimate		Increase/Decrease from 2024 Base	
		Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount	Personnel	Amount
Innovation Fund - Grants	Pos./BA	0	\$140,500	0	\$1,262,500	0	\$0	0	\$0	0	\$0
	FTE/Obl	0	0	0	72,500	0	240,705	0	240,705	0	0
Innovation Fund - Admin	Pos./BA	0	7,500	10	67,500	22	0	22	0	0	0
	FTE/Obl	0	0	7	7,500	22	9,295	22	9,295	0	0
Total	Pos./BA	0	148,000	10	1,330,000	22	0	22	0	0	0
	FTE/Obl	0	0	7	80,000	22	250,000	22	250,000	0	0

**Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund - Mandatory Account
JUSTIFICATION OF PROGRAM AND PERFORMANCE**

Activity: Public Wireless Supply Chain Innovation Fund

Goal Statement

The Public Wireless Supply Chain Innovation Fund is a ten-year program that will advance the development and deployment of open and interoperable, standards-based telecommunications networks through grants awarded on a competitive basis.

Base Program

The National Telecommunications and Information Administration will award up to \$1.405 billion in grants under the program. Grant awardees may include private sector for-profit companies, trade groups, civil society, non-profit corporations, and academia to facilitate the development and deployment of open and interoperable, standards-based telecommunications networks. Grants will be focused on the following areas:

- Promoting and deploying technology, including software, hardware, and micro-processing technology, that will enhance competitiveness in the fifth generation (commonly known as “5G”) and successor wireless technology supply chains that use open and interoperable interface radio access networks.
- Accelerating commercial deployments of open interface standards-based compatible, interoperable equipment, such as equipment developed pursuant to the standards set forth by organizations such as the O-RAN Alliance, the Telecom Infra Project, 3GPP, the Open-RAN Software Community, or any successor organizations.
- Promoting and deploying compatibility of new 5G equipment with future open standards-based, interoperable equipment.

- Managing integration of multi-vendor network environments.
- Identifying objective criteria to define equipment as compliant with open standards for multivendor network equipment interoperability.
- Promoting and deploying security features enhancing the integrity and availability of equipment in multi-vendor networks.
- Promoting and deploying network function virtualization to facilitate multi-vendor interoperability and a more diverse vendor market.

Statement of Operating Objectives

The *William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021* authorized NTIA's Public Wireless Supply Chain Innovation Fund. The *CHIPS and Science of 2022* appropriated \$1.5 billion to the program. In FY 2024, NTIA will review the applications and complete the award of grants, and NTIA will continue post-award oversight responsibilities.

Explanation and Justification

Efforts to implement the program in FY 2024 include the release of Notice of Funding Opportunities (NOFOs) and application guidance, stakeholder engagement and pre-award technical assistance for prospective applicants. Efforts will also include the monitoring of previously awarded grants through post-award oversight responsibilities and managing the PWSCIF Federal Advisory Committee. NTIA will secure the necessary staff and contractor resources to carry out these responsibilities. In FY 2024, NTIA will review the applications, award grants, and monitor post-award oversight responsibilities. Per the *CHIPS and Science of 2022*, no more than 5 percent of the annual amount allocated may be used to administer the fund and no less than \$2 million shall be transferred to the Office of Inspector General of the Department of Commerce for every year of the appropriation. NTIA also will provide technical assistance to help recipients navigate through technical challenges and Federal grants administration requirements.

Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund
SUMMARY OF REQUIREMENTS BY OBJECT CLASS
(Dollar amounts in thousands)

Activity: Public Wireless Supply Chain Innovation Fund

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
11.1 Full-time permanent (Compensation)	\$0	\$934	\$2,935	\$2,935	\$0
11.3 Other than full-time permanent	0	13	13	13	0
11.5 Other personnel compensation	0	24	50	50	0
11.8 Special personnel services payments	0	0	0	0	0
11.9 Total personnel compensation	0	971	2,998	2,998	0
12.1 Civilian personnel benefits	0	320	717	717	0
13 Benefits for former personnel	0	0	0	0	0
21 Travel and transportation of persons	0	20	20	20	0
22 Transportation of things	0	2	2	2	0
23.1 Rental payments to GSA	0	0	0	0	0
23.2 Rental payments to others	0	0	0	0	0
23.3 Commun., util., and misc. charges	0	5	5	5	0
24 Printing and reproduction	0	1	1	1	0
25.1 Advisory and assistance services	0	5,179	4,550	4,550	0
25.2 Other services from non-Federal sources	0	0	0	0	0
25.3 Purchase of goods and services from Gov't accounts	0	1,000	1,000	1,000	0
25.4 Operation of GOCOs	0	0	0	0	0
25.5 Research and development contracts	0	0	0	0	0
25.6 Medical care	0	0	0	0	0
25.7 Operation & maintenance of equipment	0	0	0	0	0
25.8 Subsistence and support of persons	0	0	0	0	0

Exhibit 16

Object Class	2022 Actual	2023 Enacted	2024 Base	2024 Estimate	Increase/Decrease from 2024 Base
26 Supplies and materials	0	2	2	2	0
31 Equipment	0	0	0	0	0
32 Lands and structures	0	0	0	0	0
33 Investments and loans	0	0	0	0	0
41 Grants, subsidies and contributions	0	72,500	240,705	240,705	0
42 Insurance claims and indemnities	0	0	0	0	0
43 Interest and dividends	0	0	0	0	0
44 Refunds	0	0	0	0	0
99.9 Total Obligations	0	80,000	250,000	250,000	0
Recoveries	0	0	0	0	0
Unobligated balance, start of year	0	(148,000)	(1,398,000)	(1,398,000)	0
Unobligated balance transferred	0	0	0	0	0
Unobligated balance, end of year	148,000	1,398,000	1,148,000	1,148,000	0
Unobligated balance expiring	0	0	0	0	0
Total Budget Authority	148,000	1,330,000	0	0	0
Personnel Data					
Full-Time equivalent Employment:					
Full-time permanent	0	7	22	22	0
Other than full-time permanent	0	0	0	0	0
Total	0	7	22	22	0
Authorized Positions:					
Full-time permanent	0	10	22	22	0
Other than full-time permanent	0	0	0	0	0
Total	0	10	22	22	0

Department of Commerce
National Telecommunications and Information Administration
Public Wireless Supply Chain Innovation Fund
ADVISORY AND ASSISTANCE SERVICES

	2022 Actual	2023 Enacted	2024 Estimate
Management and professional services	\$0	\$5,179	\$4,550
Special studies and analyses	0	0	0
Management and support services for research and development	0	0	0
Total	0	5,179	4,550

THIS PAGE INTENTIONALLY LEFT BLANK.



U.S. DEPARTMENT OF COMMERCE

FY 2024 Annual Performance Plan

FY 2022 Annual Performance Report

FY 2022 PERFORMANCE GOAL UPDATE

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION

Overview of Bureau Accomplishments

Domestic and International Policies

- Released the Declaration for the Future of the Internet (DFI) with more than 60 global partners, recommitting to the vision of the global Internet as a platform for openness and innovation, while promoting and protecting human rights.
- Submitted comments to the Federal Trade Commission, calling for new limits on the ways in which companies can collect or use individuals' personal information.
- Launched a new C-SCRIP website, enhancing NTIA's information sharing with the private sector.
- Hosted C-SCRIP's first public webinar, featuring speakers on NTIA High-Speed Internet Grant Programs and the NIST Cyber Framework.

Spectrum

- Improved coordination between the White House, Federal Communications Commission (FCC), and other Federal agencies and completed an updated spectrum coordination Memorandum of Understanding with the FCC, which has not been updated since 2004.
- Regarding the altimeter C-Band compatibility issue, NTIA continued to host regular technical discussions with the Federal Aviation Administration (FAA), the FCC, and C-band licensees to ensure that the licensees can deploy their networks in a timely manner, while addressing all the FAA's concerns about aviation safety.
- NTIA hosted its fifth annual Spectrum Policy Symposium. The symposium, a hallmark event showcasing the Commerce Department's leadership in national spectrum policy and management, has served as the chief forum for the Executive Branch to assess current technology and policy trends in key markets for wireless goods and services.

Advanced Communications Research

- In collaboration with DoD's Joint Interagency-FiveG Radar Altimeter Interference working group, NTIA's research laboratory in Boulder, CO used custom test equipment developed under the Radio Spectrum Measurement Science program to measure emissions from C-Band 5G base stations. Paired with antenna pattern measurements collected using helicopters at the Table

Mountain Radio Quiet Zone and Field Test Site, this effort and resulting Technical Report demonstrated a high level of 5G transmitter filtering which bolstered the FAA's technical solution of mandating improved receiver filtering in select radar altimeters.

- NTIA's research laboratory in Boulder, CO commissioned its new 5G Radio Access Network (RAN) lab with both Standalone and Non-Standalone core options. Future upgrades will add capabilities to test Open RAN scenarios. In consideration of Open RAN network features using virtualized software defined network architecture and spectrum sharing research, the lab will investigate commercial equipment conformance with standards, network and physical layer performance characteristics, and interoperability of various network hardware and software solutions.
- NTIA's research lab in Boulder sponsored the 4-half-day International Symposium on Advanced Radio Technologies (ISARTM) in June 2022, that focused on data-, science-, and technology-driven means to evolve and expedite spectrum-sharing regulation, sharing analyses, and decision making and identifying opportunities for continuous improvements and developments beyond the current linear spectrum sharing processes. ISART 2022 drew more than 280 participants, a record number.
- NTIA's spectrum monitoring capability, developed over the past five years for targeted, programmable, and automated spectrum monitoring, transitioned to use within projects sponsored by other agencies.

Broadband Programs

- NTIA developed and released the Notice of Funding Opportunity for the 3 Bipartisan Infrastructure Law (BIL) grant programs on May 13, 2022, which is ahead of the BIL statutory deadline. NTIA administered programs that invested in broadband infrastructure, adoption, and use projects, focusing on communities of greatest need, by executing five different grant programs, awarding \$1.69 billion in funding in FY 2022.
 - Tribal Broadband Connectivity Program (TBCP): TBCP obligated \$1.36 billion in FY 2022. The awards are planning to connect at least 100,000 Tribal households with reliable and affordable access to broadband service.
 - Broadband Infrastructure Program (BIP): BIP has awarded \$283 million in funding for projects connecting over 141,000 households in unserved areas with broadband service. All funds have been awarded for this program, and it is now in the post-award phase.
 - Connecting Minorities Communities (CMC) Pilot Program: CMC awarded \$21 million in FY 2022 to 10 grantees representing Historically Black Colleges and Universities, Tribal Colleges and Universities, and Minority-Serving Institutions for the purchase of broadband internet access service and eligible equipment to support digital equity and adoption.
 - Broadband Equity, Access, and Deployment (BEAD) Program: The BEAD program awarded \$11 million in initial planning funding for 3 states to expand infrastructure deployment and adoption programs. Released Notice of Funding Opportunity (NOFO) on May 13, 2022.
 - Digital Equity Planning Grant (DE): The Digital Equity Planning Grant program awarded approximately \$14 million for 15 states and 1 territory to develop digital equity plans. Released NOFO on May 13, 2022.

- Enabling Middle Mile Grant Program (MM): NTIA released the NOFO for the MM program on May 13, 2022, and will close its application window on September 30, 2022.
- NTIA also engaged in extensive Technical Assistance efforts through its BroadbandUSA program and in support of its grant programs, including coordinating outreach and provision of technical assistance to state, local, and tribal entities.
- NTIA's Interagency Coordination function is to serve as a liaison to coordinate with federal agencies and promote the whole-of-government approach to achieving the vision of connecting everyone to affordable, reliable, high-speed internet. Key Federal Interagency Broadband Coordination efforts include:
 - NTIA facilitated 26 interagency meetings in FY 2022 as part of the implementation of the Broadband Interagency Coordination Agreement (BICA).
 - NTIA published the first annual ACCESS Broadband Report, highlighting the newly established Office of Internet Connectivity and Growth's accomplishments over the past year and investments in Federal broadband support programs and Universal Service Fund (USF) programs. The report was developed in coordination with 13 federal agencies comprising 55 total programs and summarizes the federal broadband investment landscape, outlines the current state of measuring investments and connection across federal broadband support and USF programs, and provides recommendations to improve efforts to track broadband spending and outcomes.
 - NTIA conducted the annual update of BroadbandUSA's Federal Funding Website, which is a "one-stop" site for broadband funding resources. NTIA received information on 88 programs across 12 Federal agencies.
 - NTIA cohosted 25 American Broadband Initiative Federal Funding Workstream meetings, which bring together Federal agencies with broadband initiatives to share and learn about the work being done on broadband across the Federal government.
- NTIA formally established the Office of Minority Broadband Initiatives (OMBI), which was mandated by the Consolidated Appropriations Act, 2021. The OMBI efforts are focused on executing the CMC grant program and related efforts.

Public Safety

- The FirstNet Authority made significant progress in FY 2022 regarding the contracted for nationwide public safety broadband coverage and capacity, with all milestones met on or ahead of schedule. Today, the FirstNet Network serves over 21,000 public safety agencies and more than 3.6 million FirstNet devices.
- The Nationwide Public Safety Broadband Network (NPSBN) Core and Mission Critical functions were delivered successfully allowing Public Safety to take full advantage of the services initially acquired through the first 5 years of the NPSBN contract, leading to increased adoption and use of the FirstNet Network.
- The FirstNet Authority approved a network investment which resulted in a new task order award to enhance in-building coverage for the public safety community. The investment aims to increase FirstNet coverage where public safety agencies

operate indoors, such as police headquarters, fire stations, Emergency Communication Centers, and other critical sites and field locations. Primary FirstNet subscribing agencies will have the capability to deploy small-cell technology where and when they need it to enhance Band 14 coverage for in-building locations, including temporary field locations.

- An additional task order was awarded during this fiscal year that enables the FirstNet Authority to investigate in air-to-ground, maritime, low earth orbit satellites, etc., by initiating feasibility studies to determine if these capabilities can further enhance the user experience and services provided to public safety.
- The FirstNet Authority hosted over 1,500 engagements across all states and territories, levels of government and disciplines gathering feedback on FirstNet's impact on public safety operations. Engagement included assisting public safety with integrating FirstNet into their operations through post incident and event reviews and pre-planning activities.
- The FirstNet Authority, in partnership with the National Institute of Standards and Technology (NIST), opened the Public Safety Immersive Test Center to further the development and deployment of technologies for effective public safety response. The facility, offered at no cost to public safety agencies and organizations that support public safety response efforts, is designed to help answer key research questions around the future of user interfaces and location services for public safety training and operations.

Public Wireless Supply Chain Innovation Fund

- As authorized in the FY 2021 National Defense Authorization Act, NTIA launched the Public Wireless Supply Chain Innovation Fund to catalyze the development and adoption of open, interoperable, and standards-based networks. The agency published a request for comment (RFC), as well as a public listening session notice, to solicit stakeholder feedback on the development and implementation of the \$1.5 billion competitive grant program.

Planned Actions through FY 2024

Domestic and International Policies program

- NTIA will lead domestic and international policies on issues, such as consumer data privacy, supply chain risk management, cybersecurity, online platforms, 5G and next generation communications, competition, intellectual property, and artificial intelligence.
- NTIA will focus on countering challenges to the multistakeholder model for Internet governance, defeating renewed attempts to override the current standard Internet protocols (TCP/IP) through "newIP" standards proposals, and strengthening U.S. industry participation in the ITU to assist with these efforts.

Spectrum Management

- NTIA will prioritize the following three activities: 1) a new level of Federal coordination anchored by a National Spectrum Strategy; 2) improved science-based processes for understanding interference and resolving disputes; and 3) new technical tools for sharing and use to identify new and more efficient ways to use scarce spectrum resources.

Advanced Communications Research

- NTIA's Boulder laboratories will focus on three priority areas in: (1) research efficient spectrum access and spectrum sharing; (2) facilitate the deployment of new and innovative telecommunications technologies; and (3) modernize and maintain research facilities and equipment.

Broadband Programs

- Grant Program Administration – In FY 2023 and beyond, NTIA will continue to execute the pre-award activities for TBCP, CMC, BEAD, and DE to ensure that funds are appropriately awarded to expand broadband infrastructure and access to all Americans. NTIA will also execute post-award activities to ensure that the grants awarded in the past year are successful.
- Broadband Technical Assistance - In FY 2023 and beyond, NTIA will continue to prioritize technical assistance (TA) outreach and support for its grant programs and other critical stakeholders to support broadband planning, deployment, and digital equity efforts. For its grant programs, the TA efforts will ensure that all applicants and awardees have the necessary guidance to ensure successful projects and applications. NTIA will continue to work closely with its State Broadband Leaders Network, members of Digital Equity Leaders Network, and the newly launched Tribal Broadband Leaders Network. For broader TA efforts, NTIA will continue to host informational webinars and materials to support broadband efforts.
- Federal Interagency Broadband Coordination - Through FY 2023 and 2024, NTIA's Interagency Coordination function will include continuing to collaborate with interagency colleagues to promote the whole-of-government mission through the following major priorities:
 - Development of the annual ACCESS BROADBAND report.
 - Implementation of interagency Memoranda of Understanding (MOUs) to share data about federally funded areas, avoid duplication of federal funding, and promote alignment between programs to the extent possible.
 - Continuing to update BroadbandUSA's Federal Funding Website, which is a "one-stop" site for broadband funding resources.

Public Safety

- **Maintain and improve the nationwide public safety broadband network** – The initial buildout of the FirstNet network is expected to be completed in 2023. As with today, in the future the FirstNet Authority will continue vigorous contract oversight to

ensure that AT&T delivers on the NPSBN. The FirstNet program is preparing for the technological evolution of the network and will continue to make improvements in areas such as coverage and resiliency. The planning will be guided through a robust investment process that incorporates public safety’s operational needs, while aligning with the Act, FirstNet Authority Roadmap, strategic plan, and Board oversight. The FirstNet Authority will continue engaging with and educating the public safety community to ensure the public safety community realizes and integrates the NSBPN’s current and future improvements and innovative capabilities into their operations.

Public Wireless Supply Chain Innovation Fund

- NTIA will continue advancing the Public Wireless Supply Chain Innovation Fund through FY 2024 by awarding grants to advance open and interoperable, standards-based networks.

Analysis of Performance Indicators

Explanation of Trends

Highlighting two longstanding performance measures:

- NTIA’s domestic and international policy group plays a critical role in representing the United States in multiple treaty-based meetings to provide leadership and advance U.S. national economic and technology policies. The metric *“% of NTIA positions substantially adopted or successful at international meetings”* tracks those treaty-level positions that NTIA brings to the meeting and shows our success rate at getting them fully or substantially adopted. This trend has been exceeding targets for many years.
- NTIA’s Institute for Telecommunication Sciences (ITS) is a world leader in research and engineering, specializing in radio science, radio frequency propagation, spectrum measurement, telecommunications, next generation communication, and improved quality of service. Federal agencies, state and local government, and industry use ITS services through reimbursable agreements to conduct research. Other parties and researchers use ITS’ published technical articles to learn about the newest communications technology. Two metrics serve as a proxy for the value of the Advanced Communications Research’s work, *“Number of times research publications are downloaded annually”* and *“Successfully completed deliverables under reimbursable agreements (on time, on budget, and accepted).”*

Explanation of Targets for FY 2022 and FY 2023

In FY 2022 and FY 2023, NTIA has transitioned our performance measures to better align with the work being performed by the programs. If funding is approved, NTIA has set aggressive targets and will work to achieve those outcomes. If funding is not approved, NTIA might need to adjust target-levels but would not change outcomes that measure programs’ success. As for NTIA’s

public safety program, annual operating funding levels for the FirstNet Authority continue to remain steady from year-to-year and its annual operating budget is made available through non-appropriated means.

Progression of the Performance Indicators

As our mission programs advance, NTIA has transitioned its performance measures to better align with these new requirements and to increase the utility of the measures for periodic review with senior leadership. In FY 2023, NTIA will discontinue the performance measure associated with populating the broadband map due to the new FCC maps on broadband availability and broadband infrastructure data produced by other Federal agencies. NTIA will continue developing new performance measures that better measure the evolving mission of NTIA's programs, including new congressional and presidential mandates.

Performance Data Validation and Verification

NTIA and FirstNet track closely the performance of the program outcomes. NTIA holds regular briefings with senior leadership to ensure that deadlines are being attained and the public is being served by its work. FirstNet has quarterly briefings with the Deputy Secretary of Commerce to support the review and monitoring of the program goals and to ensure that the multi-billion initiative is achieving is on track to meet its vital public safety mission.

NTIA Performance Indicators

Class	Strategic Objective	Performance Indicator	FY 2018 Actual	FY 2019 Actual	FY 2020 Actual	FY 2021 Actual	FY 2022 Actual	FY 2022 Target	FY 2022 Status	FY 2023 Target	FY 2024 Target
Current/Recurring	1.2	Number of times research publication are downloaded annually	7,553	7,300	9,500	15,800	18,957	9,500	Exceeded	9,500	9,500
Current/Recurring	1.2	Successfully completed deliverables under reimbursable agreements (on time, on budget, and accepted)	100%	100%	98%	98%	95%	95%	Met	95%	95%
Current/Recurring	1.2	In coordination with DOC operating units, conduct outreach activities with government, industry, and multistakeholders groups to identify and address privacy and global free flow of information issues	11	11	11	11	13	6	Exceeded	6	6
Current/Recurring	1.2	Percentage of NTIA positions substantially adopted or successful at international meetings	95%	89%	85%	83%	87%	75%	Exceeded	75%	75%
Closing Out	2.4	Number of pilot states providing data to NTIA to populate Congressionally mandated broadband map	—	8	14	37	42	43	Met	DISC	DISC
Current/Recurring	2.4	Percentage of Federal frequency assignments in AWS-3 bands that have vacated or shared spectrum, according to approved transitions plans	—	—	89%	90%	100%	90%	Exceeded	90%	90%
Current/Recurring	2.4	Percentage of public safety adoption targets achieved	—	—	69%	87%	100%	100%	Met	100%	100%
Current/Recurring	2.4	Percentage of planned coverage achieved	20%	20%	60%	80%	95%	95%	Met	100%	100%
Current/Recurring	2.4	Number of State and Territory Technical Assistance Engagements	—	—	—	—	94	50	Exceeded	75	75
Current/Recurring	2.4	Number of Broadband Equity Access and Deployment (BEAD) Program State & Territory 5-Year Action Broadband Plans	—	—	—	—	0	10	Not Met	55	1
Current/Recurring	2.4	Total amount of NTIA grant funds obligated for broadband-related programs	—	—	—	—	\$1.70 B	\$2.70 B	Not Met	\$4.30 B	\$36.30 B

	Exceeded		Met		Not Met
--	----------	--	-----	--	---------

THIS PAGE INTENTIONALLY LEFT BLANK.