

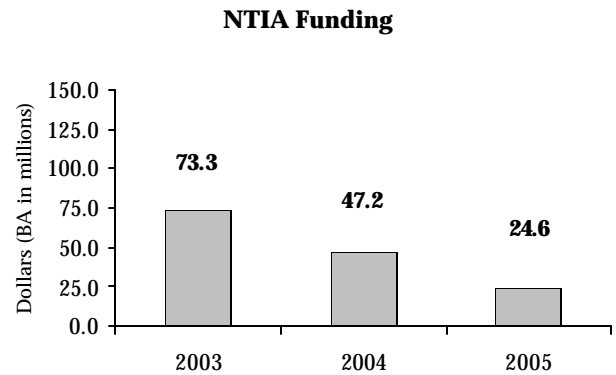
National Telecommunications and Information Administration

The National Telecommunications and Information Administration (NTIA) is responsible for the development of domestic and international telecommunications and information policy for the Executive Branch; for ensuring the efficient and effective management and use of the Federal radio spectrum; for performing state-of-the-art telecommunications research, engineering, and planning; and for administering the Federal program that supports telecommunications facilities for public broadcasting.

For 2005, NTIA requests the funds necessary to implement the President's **Spectrum Policy for the 21st Century** initiative, including basic research, analytical, and management topics of immediate interest to the telecommunications and information sectors. The **Salaries and Expenses** budget includes funding to maintain ongoing programs for domestic and international policy development, federal spectrum management, and related research.

The **Public Telecommunications Facilities, Planning, and Construction** (PTFPC) program, in conjunction with the Corporation for Public Broadcasting, has provided support for public broadcasting's digital conversion. NTIA will discontinue this program in FY 2005. Alternatively, the Administration is proposing to target funding of \$20 million for digital transition grants for public television stations from within the Corporation for Public Broadcasting's already enacted 2005 funding of \$390 million.

Information Infrastructure Grants: This program is proposed for termination.



Summary of Appropriations

Funding Levels

Appropriation	2003 <u>Actual</u>	2004 <u>Estimate</u>	2005 <u>Estimate</u>	Increase <u>(Decrease)</u>
Salaries and Expenses	\$14,604	\$14,450	\$22,101	\$7,651
Public Telecommunications Facilities, Planning & Construction	43,273	21,769	2,538	(19,231)
Information Infrastructure Grants	15,402	14,842	0	(14,842)
Endowment for Children's Educational Television	0	0	0	0
Total APPROPRIATION	73,279	51,061	24,639	(26,422)
Unobligated balance, rescission, S&E	0	(395)	0	395
Unobligated balance, rescission, PTFPC	0	(2,434)	0	2,434
Unobligated balance, rescission, IIG	0	(995)	0	995
Unobligated balance, rescission, Endowment	0	(45)	0	45

Budget Authority

Salaries and Expenses	14,604	14,055	22,101	8,046
Public Telecommunications Facilities, Planning & Construction	43,273	19,335	2,538	(16,797)
Information Infrastructure Grants	15,402	13,847	0	(13,847)
Endowment for Children's Educational Television	0	(45)	0	45
TOTAL BUDGET AUTHORITY	73,279	47,192	24,639	(22,553)

FTE

Salaries and Expenses	93	111	122	11
Reimbursable	127	155	171	16
Public Telecommunications Facilities, Planning & Construction	13	13	3	(10)
Information Infrastructure Grants	18	17	0	(17)
Total	251	296	296	0

Highlights of Budget Changes

Appropriation: Salaries and Expenses

Summary of Requirements

	Detailed		Summary	
	<u>FTE</u>	<u>Amount</u>	<u>FTE</u>	<u>Amount</u>
2004 Appropriation			111	\$14,450
Adjustments to Base				
Other Changes				
2004 Pay raise		\$286		
2005 Pay raise		133		
Payment to Working Capital Fund		28		
Within-grade step increases		187		
Change in compensable day		(40)		
Civil Service Retirement System(CSRS)		(19)		
Federal Employees' Retirement System(FERS)		29		
Thrift Savings Plan		5		
Federal Insurance Contributions Act (FICA) -OASDI		18		
Health insurance		62		
Employees' Compensation Fund		6		
Rent payments to GSA		48		
Other services: Working Capital Fund		77		
General Pricing Level Adjustment:				
Other services		5		
Supplies and materials		2		
Equipment		5		
Subtotal, other cost changes			0	832
Less amount absorbed				(327)
TOTAL, ADJUSTMENTS TO BASE			0	505
2005 Base			111	14,955
Program Changes			11	7,146
2005 APPROPRIATION			122	22,101

Comparison by Activity

	2004 Currently Avail.		2005 Base		2005 Estimate		Increase / Decrease	
	FTE	Amount	FTE	Amount	FTE	Amount	FTE	Amount
DIRECT OBLIGATIONS								
Domestic & International Policies	37	\$4,234	37	\$4,158	41	\$5,158	4	\$1,000
Spectrum Management	28	4,860	28	4,578	32	6,724	4	2,146
Telecommunication Sciences Res.	46	5,952	46	6,219	49	10,219	3	4,000
TOTAL DIRECT OBLIGATIONS	111	15,046	111	14,955	122	22,101	11	7,146
REIMBURSABLE OBLIGATIONS	155	36,399	155	26,412	171	34,996	16	8,584
TOTAL OBLIGATIONS	266	51,445	266	41,367	293	57,097	27	15,730
FINANCING								
Unobligated balance, start of year (Direct)		(991)						
Unobligated balance, start of year (Reimbursable)		(11,179)						
Offsetting collections from:								
Federal funds	(152)	(24,720)			(168)	(34,496)		
Non-Federal sources	(3)	(500)			(3)	(500)		
Subtotal, financing	(155)	(37,390)			(171)	(34,996)		
TOTAL BUDGET AUTHORITY	111	14,055			122	22,101		
Unobligated balance, rescission		395						
TOTAL APPROPRIATION	111	14,450						

Highlights of Program Changes

	Base		Increase / Decrease	
	FTE	Amount	FTE	Amount
Spectrum Efficiency and Planning -Incentives	37	\$4,158	+4	+\$1,000

This initiative will support long-term efforts to develop a comprehensive national spectrum policy. NTIA will develop principles and policies based on advanced economic theory and in the context of proposed regulatory changes to help implement Administration policy on spectrum access, and it will further develop concepts and policy direction in this area articulated by the Federal Communications Commission’s Spectrum Policy Task Force as well as the proposal in the President’s budget for the greater use economic mechanisms, such as fees, as spectrum management tools.

Spectrum Efficiency and Planning – International Spectrum Management	28	\$4,578	+1	+\$400
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NTIA, in coordination with the FCC and the Department of State, must ensure that the necessary spectrum for Federal radiocommunications is available now and in the future; that the United States industry is afforded a level playing field competitively to market its radiocommunications globally; and that the world is afforded the opportunity to have access to the full array of communications from the newest radiocommunication technologies. The initiative will enable the International Telecommunication Union process to be more responsive and limit the time it takes to implement new technologies, especially those that make more efficient use of the spectrum and those leading to a complete compliment of communications to and from all persons in the world.

This initiative will provide the resources for NTIA to meet its increased international responsibility as a result of the increased number and complexity of spectrum issues in succeeding World Radio Communication Conferences

Spectrum Efficiency and Planning - Interference Determination Methods	28	\$4,578	+3	+\$746
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Interference determination methods will support more efficient use of the radio spectrum, a critical requirement as available spectrum becomes more scarce. This program will provide spectrum managers, radiocommunication designers

and developers, and radiocommunication users with the capabilities, tools and procedures to minimize interference to and from their systems. Techniques and methods to define the electromagnetic environment, to define the interference effects from this environment; and to prevent and minimize these interference effects will be surveyed and documented.

	<u>FTE</u>	<u>Base Amount</u>	<u>Increase / Decrease FTE</u>	<u>Amount</u>
Spectrum Efficiency and Planning – Interference Temperature and Noise Research	46	\$6,219	+3	+\$2,000

Accurate knowledge of man-made radio noise (interference) is essential to achieving high spectrum efficiency for any radio or wireless service. This need is especially true where a major reallocation of spectrum is involved. Up-to-date knowledge of noise and the development of a quantifiable interference temperature concept are both priorities and fundamental to the development and establishment of new approaches to spectrum management (including open spectrum use rights). Without such research and development, the use of a new approach for determining acceptable versus harmful interference may, in fact, result in less spectrum efficiency and more interference. The Interference Determination Initiative will describe the categories and characteristics of interference caused to every radio and wireless system by any and all other systems.

Paperless System for Spectrum Policy	28	\$4,578	0	+\$1,000
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To meet increasing demand for Federal wireless communication systems and services, most notably for public safety requirements within the reduced spectrum resources available, NTIA will establish a paperless system for spectrum issue resolution, certification, satellite coordination and frequency authorization. This request will be matched with \$4.0 million in reimbursements from the Federal agencies that use spectrum.

General Lab Upgrades	46	\$6,219	0	+\$2,000
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NTIA must undertake this initiative as a part of the periodic replacement, upgrade, and maintenance of laboratory space and equipment. Maintenance is long overdue and much of the existing lab and office equipment is in need of replacement. A parallel effort is currently underway at NIST that supports but does not overlap this effort. Without these tasks being completed, the NTIA/ITS lab will seriously deteriorate, becoming functionally obsolete and unsafe to use. The basic research performed at ITS, which this initiative will support, is available to support billions of dollars in investments in both the public and private sectors.

Appropriation: Public Telecommunications Facilities, Planning and Construction

Summary of Requirements

	Summary	
	<u>FTE</u>	<u>Amount</u>
2004 Appropriation	13	\$21,769
Base reduction pursuant to 2004 unobligated balance		(2,019)
Adjustments to Base	0	0
2005 Base	13	19,750
Program Changes	(10)	(17,212)
2005 APPROPRIATION	3	2,538

Comparison by Activity

	2004 Currently Avail.		2005 Base		2005 Estimate		Increase / Decrease	
	FTE	Amount	FTE	Amount	FTE	Amount	FTE	Amount
DIRECT OBLIGATIONS								
Grants	0	\$23,117	0	\$18,000	0	\$0	0	(\$18,000)
Program Management	13	2,321	13	1,750	3	2,538	(10)	788
TOTAL DIRECT OBLIGATIONS	13	25,438	13	19,750	3	2,538	(10)	(17,212)
FINANCING								
Unobligated balance, start of year		(6,103)						
TOTAL BUDGET AUTHORITY	13	19,335			3	2,538		
Unobligated balance, rescission		2,434						
TOTAL APPROPRIATION	13	21,769						

Highlights of Program Changes

	<u>Base</u>		<u>Increase / Decrease</u>	
	<u>FTE</u>	<u>Amount</u>	<u>FTE</u>	<u>Amount</u>
Public Telecommunications Facilities Planning & Construction (PTFPC)	13	\$19,750	-10	-\$17,212

The PTFPC program, in conjunction with the Corporation for Public Broadcasting, has provided support for public broadcasting's digital conversion. NTIA will discontinue this program in FY 2005. Alternatively, the Administration is proposing to target funding of \$20 million for digital transition grants for public television stations from within the Corporation for Public Broadcasting's already enacted 2005 funding of \$390 million.

Appropriation: Information Infrastructure Grants**Summary of Requirements**

	Summary	
	<u>FTE</u>	<u>Amount</u>
2004 Appropriation	17	\$14,842
Base reduction pursuant to 2004 unobligated balance		(825)
Adjustments to Base	0	0
2005 Base	17	14,017
Program Changes	(17)	(14,017)
2005 APPROPRIATION	0	0

Comparison by Activity

	2004 Currently Avail.		2005 Base		2005 Estimate		Increase / Decrease	
	FTE	Amount	FTE	Amount	FTE	Amount	FTE	Amount
DIRECT OBLIGATIONS								
Technology Opportunity Program								
Grants	0	\$12,878	0	\$11,212	0	\$0	0	(\$11,212)
Program Management	17	3,464	17	2,805	0	0	(17)	(2,805)
TOTAL DIRECT OBLIGATIONS	17	16,342	17	14,017	0	0	(17)	(14,017)
FINANCING								
Unobligated balance, start of year	0	(2,495)			0	0		
TOTAL BUDGET AUTHORITY	17	13,847			0	0		
Unobligated balance, rescission		995						
TOTAL APPROPRIATION	17	14,842						

Highlights of Program Changes

	<u>Base</u>		<u>Increase / Decrease</u>	
	<u>FTE</u>	<u>Amount</u>	<u>FTE</u>	<u>Amount</u>
Technology Opportunities Program Grants	17	\$14,017	-17	-\$14,017

This program is proposed for termination. The use of deobligations and unobligated balances is requested for monitoring existing grants and close-out costs.

NTIA Performance Measures

NTIA's strategic planning process is designed to improve the management and effectiveness of the agency and continue to address impediments to the development of innovative telecommunications services by the private sector. NTIA's spectrum management and research activities promote innovative technologies and uses of spectrum resources for affordable, alternative communications services. Facilitating broadband deployment is also a major focus of NTIA's efforts. This promising technology has the potential to revolutionize e-commerce, educational opportunities, and health care. The following table shows the measures that NTIA uses to gauge its performance. A more detailed description of these goals and measures is in the NTIA section of the Department of Commerce budget.

Performance Goals (Obligations) and Measures (Targets)

(Dollars in millions)

	2003 <u>Actual</u>	2004 Estimate / <u>Target</u>	2005 Estimate / <u>Target</u>
Goal 1: Increase competition within the telecommunications sector and universal access to telecommunications services for all Americans	\$3.9	\$4.1	\$4.1
Provide the policy framework for introduction of new technologies	Spectrum for 3G ultra wideband; ICANN; .us and kids.us, ENUM, VoIP, ICANN, Rights of way, CIPA	Policy successes	Policy successes
Policy customer survey	Postponed	50 customers	50 customers
Goal 2: Efficient and effective allocation of radio spectrum	\$24.5	\$28.6	\$43.4
Timeliness of processing	15 Business Days	12 Business Days	12 Business Days
% of requests accomplished online	55%	95%	95%
Customer satisfaction survey on training course	90%	90% satisfactory or better	90% satisfactory or better
Goal 3: Ensure broader availability and support new sources of advanced telecommunications and information services	\$69.2	\$60.5	\$12.2
Quality of basic research as reflected in peer-reviewed publications	5 publications	6 publications	6 publications
Level of technology transfer activities conducted with the private sector through the Cooperative Research and Development Agreements (CRADA)	5 CRADA	3 CRADA	3 CRADA
Total	\$97.6	\$93.2	\$59.7