

# ANNUAL REPORT OF THE TENNESSEE EMERGENCY COMMUNICATIONS BOARD

Fiscal Year 2019



Pursuant to Tenn. Code Ann. §§ 7-86-128(b)(3)<sup>1</sup> and 7-86-315,<sup>2</sup> the Tennessee Emergency Communications Board ("Board" or "TECB") hereby submits its annual report to the Governor, Speakers of the General Assembly and the Senate and House Finance, Ways and Means Committees. This annual report covers the Board's activities from July 1, 2018 through June 30, 2019.

<sup>&</sup>lt;sup>1</sup> Tenn. Code Ann. § 7-86-128(b)(3) states in pertinent part:

The board shall report annually to the finance, ways and means committees of the senate and house of representatives on the financial status and solvency of emergency communications districts, status of the implementation of a uniform statewide 911 system and the status, level and solvency of the 911 Emergency Communications Fund.

<sup>&</sup>lt;sup>2</sup> Tenn. Code Ann. § 7-86-315 states:

The board shall report annually to the governor and the speakers of the general assembly on the activities of the board for the preceding year. The board shall receive and consider from any source whatsoever, whether private or governmental, suggestions for amendments to this chapter.

## Statement of the Chairman

On behalf of the members of the Tennessee Emergency Communications Board, I am pleased to present you with the Board's annual report for fiscal year 2019.

The Emergency Communications Board began the fiscal year focusing on 911 telecommunicator training and education. The Board provided an average of more than five hundred (500) hours of training each month through its online training platform. The Board also coordinated with the National Emergency Number Association ("NENA"), to provide several in-person training programs throughout the state resulting in over 2,500 hours of in-person training.

The Board continued to move forward with its Next Generation 911 ("NG911") project. NG911 is replacing the State's 911 infrastructure with an internet protocol ("IP") platform that will improve 911 call delivery, enhance interoperability and increase the ease of communication between emergency communications districts, allowing the immediate transfer of 911 calls, caller information, and other data statewide.

At the end of the fiscal year over 105 of Tennessee's 142 public safety answering points ("PSAPs") were live on the network, as were all telecommunications carriers operating in Tennessee. Each month over 250,000 911 calls are processed over the NG911 network.

In fiscal year 2019, the Board also began offering Text-to-911 service to Tennessee's one hundred (100) emergency communications districts. Text-to-911 has been successfully deployed in Hamilton County, Memphis and part of Madison County. Many other deployments are expected in fiscal year 2020.

The financial integrity of the emergency communications districts across Tennessee continues to be one of the board's highest priorities. The Board and its staff worked diligently throughout the year to guide and assist districts with financial matters, and the Board is pleased to announce that none of the districts are "financially distressed" under Tenn. Code Ann. § 7-86-304(d).

I would like to express my gratitude to the hundreds of 911 professionals in Tennessee. Because of their hard work and dedication Tennessee remains a national leader in 911 and continues to provide its citizens and guests with high-quality 911 service throughout the State. It is an honor to serve as the chairman of the Tennessee Emergency Communications Board.

Respectfully,

Mike Hooks Chairman

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#### Introduction

The Tennessee Emergency Communications Board ("TECB"), a division of the Department of Commerce and Insurance, was created "for the purpose of assisting emergency communications district boards of directors in the area of management, operations, and accountability, and establishing emergency communications for all citizens of the state."<sup>1</sup> The TECB is funded through a monthly 911 surcharge on communications services capable of connecting to 911.<sup>2</sup>

The TECB exercises financial and operational oversight over the State's one hundred (100) emergency communications districts ("ECDs"), which are statutorily created municipalities responsible for administering and facilitating local 911 call taking and dispatching services.<sup>3</sup> The TECB is also charged with establishing technical, operational, and dispatcher training standards and establishing operating standards concerning acceptable uses of revenue.<sup>4</sup>

The TECB works on the local, state and federal levels to facilitate the technical, financial and operational advancement of Tennessee's 911 system and its ECDs. As part of this advancement, the TECB is currently engaged in a revolutionary project to modernize the State's aging 911 infrastructure, converting it from analog to digital. This Next Generation 911 project involves the construction and management of a statewide Internet Protocol ("IP") platform that will vastly improve 911 call delivery, provide additional layers of redundancy, and enhance interoperability between ECDs. The TECB's progress on this project makes Tennessee a national leader in 911.

<sup>&</sup>lt;sup>1</sup> See Tenn. Code Ann. § 7-86-302(a).

<sup>&</sup>lt;sup>2</sup> See Tenn. Code Ann. §§ 7-86-128(a)(2) & 7-86-303(d).

<sup>&</sup>lt;sup>3</sup> See Tenn. Code Ann. §§ 7-86-106, 7-86-302(a), 7-86-306(a)(11).

<sup>&</sup>lt;sup>4</sup> See Tenn. Code Ann. §§ 7-86-205, 7-86-306(a)(10)&(11).

# **Tennessee Emergency Communications Board Members**

Mike Hooks Chairman Director, Roane County ECD

**Dan Springer** Public Citizen Representative

Hon. Gary Davis Mayor, Bradley County

Mark Archer Director, Henry County ECD

Bob McNeill Director, Washington County ECD Phillip Noel Vice Chairman Director, Bedford County ECD

**Greg Cothron** Designee, Comptroller of the Treasury

Hon. Jill Holland Mayor, City of McKenzie

**Steve Martini** Director, Williamson County ECD

#### **Tennessee Emergency Communications Board Staff**

Curtis S. Sutton Executive Director

James Barnes Fiscal Director

Amber McDonald Director of Government & External Affairs

**Barbara Shank** Administrative Service Assistant 3 **Benjamin Glover** Assistant Director & General Counsel

Eddie Burchell Chief, E911 Technical Service

Jamison Peevyhouse Training Coordinator

Vanessa Williams Executive Assistant

#### **Tennessee Emergency Communications Board Advisory Committees**

The TECB is required to appoint a technical advisory committee and other advisory committees for the purpose of providing and receiving information to the TECB.<sup>5</sup> The following committees have been established and the individuals identified for each were committee members for all or part of the fiscal year.

<sup>&</sup>lt;sup>5</sup> See Tenn. Code Ann. §§ 7-86-308 and 7-86-309.

## **Operations Advisory Committee**

The TECB's Operations Advisory Committee provides technical and operational recommendations to the TECB. Its members include:

David Alexander, Director, Hardin County ECD John Allman, Director of Information Technology, Brentwood ECD Allen Bull, Director, Knox County ECD Jeff Carney, Director of Operations, Hamilton County ECD Mark Grant, Dyersburg Police Department Monica Moore, Director, Haywood County ECD Eric Ritzman, Director, Cumberland County ECD Virginia Smelser, Director, Sullivan County ECD

# **Policy Advisory Committee**

The TECB's Policy Advisory Committee advises the TECB on policy matters, particularly issues impacting both 911 and other governmental agencies, as well as issues arising during legislative sessions. Committee members are selected to reflect a balance of interests, locations and demographics, and include representatives of ECDs of various sizes and locations, county and municipal governments, and representatives from the associations of Police & Fire Chiefs and Sheriffs, as well as emergency management agencies. Its members include:

Dale Blevins, Director, Carter County ECD Eric Carpenter, Director, Hamblen County Brian Hitchcock, Director, Montgomery County ECD Tonya Jetton, Director, Sumner County ECD Linda Nichols, Director, Cheatham County ECD Stacy Rhodes, Director, Tennessee Association of Rescue Squads Eric Ritzman, Director, Cumberland County ECD Steve Smith, Director Rutherford County ECD John Stuermer, Director, Hamilton County ECD Jimmy Turnbow, Director, Wayne County ECD

# **Technical Advisory Committee**

Pursuant to Tenn. Code Ann. § 7-86-308, a Technical Advisory Committee composed of representatives of 911 service suppliers and non-wireline service providers is appointed for the purpose of providing and receiving operational and technical

information and advice on all aspects of wireless enhanced 911 service. Its members include:

Angel Archo, Comcast Dan Collyer, Board Member, Hamilton County ECD Lawson Dripps, AT&T Rich Johnston, West Safety Services Allan Muse, AT&T

# **Training Advisory Committee**

During FY2016, the TECB formed a Training Advisory Committee for the purpose of reviewing the state's telecommunicator/dispatcher training requirements promulgated pursuant to Tenn. Code Ann. § 7-86-205 and to make recommendations to ensure these requirements provide Tennesseans with the highest level of 911 service. The committee is comprised of ECD directors, training coordinators and other individuals representing fire, EMS and law enforcement. Its members include:

Tami Chamberlain, Training Coordinator, Hamilton County ECD Eddie Farris, Sheriff, Putnam County Lisa Fulton, Training Coordinator, Metro Nashville ECC Sherri Hanna, Director, Obion County ECD Linda Nichols, Director, Cheatham County ECD Dennis Rowe, Director, Priority Ambulance Service Virginia Smelser, Director, Sullivan Co. ECD Mike Walker, Police Chief, La Vergne

# **Financial Study Committee**

In May 2018, the TECB approved a request from Hamilton County ECD to form a Financial Study Committee to develop and recommend changes to the chart of accounts to the Comptroller's Office of Local Government Audit. Its members include:

Mark Archer, Director, Henry County ECD Roger Hager, Director, Claiborne County ECD Scott LeDuc, E-911 Financial Consultant and CFO, A&M Distributors, Inc. James B. Long, Director, Blount County ECD Cassie Lowery, Assistant Director, Rutherford County ECD Stephen Martini, Director, Williamson County ECD Karen Moore, Director, Wilson County ECD Cristy Pittman, Cowart Reese Sargent, CPAs Eric Ritzman, Director, Cumberland County ECD John Stuermer, Director, Hamilton County ECD Jimmy Turnbow, Director, Wayne County ECD Kim White, Knox County ECD

# The 911 Emergency Communications Fund

The 911 Emergency Communications Fund is a separate fund of deposits in the state treasury comprised of 911 surcharges collected by the TECB and interest accumulated on those deposits.<sup>6</sup> The 911 surcharge is the TECB's sole recurring revenue source. It is levied on communications services that are capable of contacting a PSAP by entering or dialing the digits 911.

Disbursements from the fund are limited solely to the operational and administrative expenses of the TECB. Authorized operational and administrative expenditures include distributing a statutorily-determined amount of base funding to each ECD, implementing and maintaining an IP-based NG911 network, and funding the Tennessee Regulatory Authority for the Tennessee Relay Services/Telecommunications Devices Access Program ("TRS/TDAP"), which provides assistance to those Tennesseans whose disabilities interfere with their use of communications services and technologies.

During fiscal year 2019, total cash receipts of \$105,652,433 were collected from the 911 surcharge. This was comprised of \$19,823,853 from prepaid cell phone service sales and \$85,728,580 from standard 911 service charges. The TECB had total expenditures of \$113,925,128 for the fiscal year. Payments to ECDs totaled over \$97.3 million, constituting 85.4% of the total expenditures. Payments to ECDs included \$94.4 million for statutory distributions and \$3 million for recurring non-mandated controller subsidy distributions. Payments to individual districts are identified in Exhibit D.

The TECB provided corporate cost recovery to wireless telecommunications providers in the amount of \$28,329 while investing over \$11.2 million to advance NG911 in the state. Approximately \$2.8 million was expended for administration, including contracts with technical consultants and training. The 911 Funding Modernization and IP Transition Act of 2014 requires the TECB to reimburse the TRA, renamed the Public Utilities Commission ("PUC"), for the Tennessee Relay Services/Telecommunications Devices Access Program. The TECB reimbursed the PUC over \$1.9 million for these services and programs.

The 911 Funding Modernization and IP Transition Act of 2014 also requires the TECB to annually distribute to each ECD a base amount equal to the average total recurring

<sup>&</sup>lt;sup>6</sup> See Tenn. Code Ann. § 7-86-303.

annual revenue the ECD received for fiscal years 2010 through 2012.<sup>7</sup> The Act guarantees no ECD will receive less than the total amount it received in fiscal year 2012. The adjusted base amounts for each ECD are identified in Exhibit G.

# Status of Next Generation 911 Modernization Project

Traditional 911 infrastructure does not fully support the next generation of IP devices and advancements in 911 technology currently becoming available. In order to advance 911 congruently as telecommunications technology advances, the TECB began a project to replace Tennessee's 911 infrastructure with a platform that will provide 911 with the capabilities our citizens expect from modern telecommunications technology.

The project, referred to as NG911, involves utilization of the State's secure, private, outsourced Multiprotocol Label Switching ("MPLS") network called "NetTN," provided by AT&T and managed by Strategic Technology Solutions ("STS") in the Tennessee Department of Finance and Administration. The new network improves redundancy, reliability, and 911 call delivery. It enhances interoperability and increases the ease of communication between ECDs, allowing immediate transfer of 911 calls, caller information, and other data on a statewide level. NG911 will also provide alternate paths to process emergency calls in the event of an outage, providing lifesaving capabilities in the event of an emergency that would have been unachievable on the outdated analog network.

On September 27, 2018, the TECB voted to proceed with moving from AT&T's microDATA-based Internet protocol selective routing (IPSR) solution to its nationwide ESInet<sup>™</sup> with Next Generation Core Services (NGCS) solution. This decision includes a transition to the automatic location identification (ALI) platform also supported by the AT&T nationwide solution. This change will allow the state of Tennessee to continue its leadership in NG911 and will enable the TECB to deliver enhanced technology services, including deployment of Text-to-911. Text-to-911 has been successfully deployed in Hamilton County and portions of Madison and Shelby County, and many other deployments are expected in fiscal year 2020.

In fiscal year 2019, the TECB spent \$11,224,726 million implementing and maintaining the NG911 project: \$6,974,790 to integrate with and adapt the Net TN system for NG911 purposes; \$780,966 for non-recurring start-up costs of the statewide hosted controller or Call Handling as a Service program; \$3,451,369 to maintain the twenty-four hour network operations center to assist PSAPs with technical issues; and \$17,600 for Esri GIS software licensing.

The TECB projects annual recurring operational costs of approximately \$16.5 million to maintain the NG911 program.

<sup>&</sup>lt;sup>7</sup> See Tenn. Code Ann. § 7-86-303(e).

# Financial Status of Emergency Communications Districts

The TECB monitors the financial health of all one hundred (100) ECDs in Tennessee. Districts that are deemed to meet the statutory definition of "financially distressed" are subject to the TECB's supervision and evaluation pursuant to Tenn. Code Ann. § 7-86-304(d). The TECB is pleased to report none of Tennessee's one hundred (100) ECDs were determined to be financially distressed during the 2019 fiscal year based on analysis of FY2018 audit reports.

- One district had three consecutive years of negative change in net position meeting the definition for distressed status and three (3) districts with three years of negative change in FY2017 had a fourth consecutive year of negative change. These four (4) districts had depreciation expense greater than their negative change on FY2018 audit reports and were evaluated by TECB and determined not distressed in consideration of state law and TECB Policy No. 6. TECB staff attended at least one board meeting of each of these districts after audits were released; and Policy 6 requirements were discussed with ECD board members. All four (4) districts are working with staff to address their negative changes in net position.
- Eighteen (18) districts had a first year of negative change in net position; and twelve (12) of those districts had depreciation expenses greater than the negative change. The remaining six (6) were notified and offered assistance in accordance with Policy 6.
- Five (5) districts had a second consecutive year of negative change in net position and staff has communicated with these districts to offer assistance.

# **Emergency Communications Districts Audits**

The TECB may act upon any adverse findings noted in ECD audits and order such action as may be necessary to remedy the adverse findings.<sup>8</sup>

The following schedule is a comparison of reported findings in ECD audit reports for the last three (3) years. Fiscal year 2018 findings for each ECD are found in Attachment F.

Reported Material Weaknesses/Findings from Audit Reports

<u>2016</u>	<u>2017</u>	<u>2018</u>	
33	27	24	Expenses exceeded budget
17	13	14	Segregation of duties
0	2	8	Management lacks skills & knowledge to apply GAAP

<sup>&</sup>lt;sup>8</sup> § 7-86-304. Uniform financial accounting system -- Audit -- Annual budgets -- Supervision of financially distressed districts

6	10	4	Policy & procedure requirements
0	0	1	Inappropriate check signatures
2	1	4	Inadequate supporting documents
5	5	0	Deficiencies recording transactions
0	5	1	Banking Issues
1	2	1	Surety Bond coverage
6	0	0	Reconcile to general ledger
0	0	0	Inappropriate use of funds
70	65	62	Total

#### **Other TECB Activities**

The TECB is committed to ensuring 911 telecommunicators are providing Tennesseans with the highest level of 911 service. The TECB fulfills this commitment by providing numerous education and training opportunities for 911 districts and telecommunicators. In FY2019, there were three core focus areas that provided positive impacts to our customers and citizens.

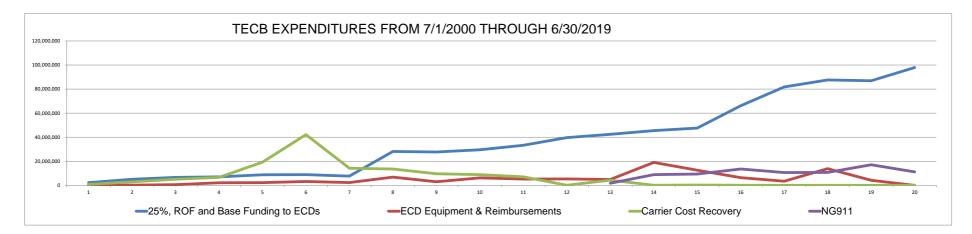
First, the TECB partnered with the National Emergency Number Association ("NENA") to offer several in-person training programs throughout the state. In excess of 2,500 hours of training was executed through courses such as: Center Supervisor; 9-1-1 Center Training Officer; Recruit, Hire, Retain and Promote for Success; Advanced Police Dispatch; Advanced Fire/EMS Dispatch; and Enhanced Caller Management. NENA courses provide direct benefit to the leadership of 911 in Tennessee.

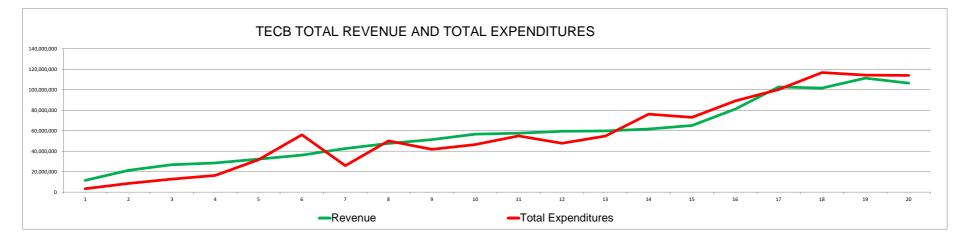
Second, the TECB offered coursework that enhanced the trade-skills 911 Geographical Information Systems (GIS) professionals in the state through a partnership with TrueNorth Geographic Technologies (TNGeo). The local GIS dataset is the required base for Next Generation 911 call routing, call delivery, and effective dispatching of emergency services within the State. These courses offered instruction to local GIS professionals on proper data management, standards compliance, enhanced location service offerings, and response boundary topology. TNGeo courses provide direct benefit to the core functions of NG911 in Tennessee.

Last, the TECB continued to provide its Virtual Academy on-line training platform at no cost to Tennessee's 911 telecommunicators. The Virtual Academy initiative has been an enormous success, averaging more than five hundred (500) hours of training each month. The platform saves local jurisdictions significant time and money, ensuring their employees meet Tennessee's training requirements while reducing travel, staffing, and tuition costs. As of June 30, 2019, there were 1,938 users registered on the platform, and over 9,000 hours of content has been delivered. Virtual Academy provides direct benefit to the frontline operations of 911 in Tennessee.

#### TENNESSEE EMERGENCY COMMUNICATIONS BOARD REVENUE AND EXPENDITURES FROM 7/1/2000 THROUGH 6/30/2019

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
FY	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Administration and TRA/TDAP	372,812	300,395	427,268	560,376	1,172,783	1,717,185	1,649,936	1,400,090	1,424,447	1,651,951	1,566,232	2,574,293	1,185,889	2,590,277	3,102,333	2,807,073	4,193,591	4,430,065	5,876,594	4,743,830
25%, ROF and Base Funding to ECDs	2,258,345	5,044,632	6,634,283	7,061,839	8,828,899	8,890,864	7,670,805	28,185,013	27,755,744	29,600,211	33,302,610	39,679,156	42,438,987	45,525,992	47,601,821	66,188,044	81,819,277	87,636,531	86,941,334	97,909,411
ECD Equipment & Reimbursements	42,631	226,633	602,902	2,158,642	2,298,578	3,228,252	2,337,905	6,827,124	3,013,485	6,259,937	5,209,471	5,319,293	4,915,914	19,056,319	12,620,900	6,424,104	3,464,982	13,898,393	4,250,405	0
Carrier Cost Recovery	773,582	2,922,527	5,128,323	6,621,880	19,278,285	42,144,775	14,217,928	13,628,921	9,623,470	8,921,061	7,083,770	86,939	4,352,970	71,302	272,577	75,957	43,571	40,691	45,654	47,161
NG911											7,669,002		1,787,813	8,913,006	9,407,352	13,629,792	10,628,595	10,774,625	17,123,465	11,224,726
Revenue	11,496,053	21,399,599	26,797,718	28,455,380	32,232,922	36,124,288	42,492,085	47,594,812	51,362,089	56,624,840	57,489,286	59,465,100	59,689,588	61,586,019	65,032,815	81,077,523	102,617,405	101,583,552	111,227,735	106,367,063
Total Expenditures	3,447,370	8,494,187	12,792,775	16,402,737	31,578,545	55,981,077	25,876,574	50,041,148	41,817,146	46,433,160	54,831,085	47,659,681	54,681,573	76,156,896	73,004,983	89,124,970	100,150,016	116,780,305	114,237,452	113,925,128





#### TENNESSEE EMERGENCY COMMUNICATIONS BOARD FY2019 FINANCIAL REPORT 3rd Preliminary Closing Note 1:

EXPENDITURES	Adjusted Work Plan	Year-to-Date Total
Regular Salaries and Wages (70100)	696,300.00	<u>631,132.00</u>
Longevity (70102)	21,400.00	18,837.24
Overtime (70104)	0.00	0.00
Employee Benefits (702)	277,600.00	240,074.35
Payroll Expenditures	995,300.00	890,043.59
Travel (703)	65,000.00	32,860.84
Printing, Duplicating & Film Proc. (704)	1,700.00	0.00
Utilities and Fuel (705)	2,900.00	0.00
Communications & Shipping (706)	1,500.00	394.72
Maint., Repairs and Svcs by Others (707)	2,000.00	0.00
Third Party Prof. & Admin. Svcs (708)	5,950,500.00	3,951,410.20
Supplies and Office Furniture (709)	19,300.00	2,336.02
Rentals and Insurance (710)	2,300.00	51.25
Motor Vehicle Operation (711)	3,000.00	75.00
Awards and Indemnities (712)	1,200.00	410.40
Grants and Subsidies (713)	93,623,700.00	98,066,793.84
Unclassified Expenses (714)	1,800.00	800.00
Inventory (715)	0.00	0.00
Equipment (716)	10,000.00	0.00
Land (717)	0.00	0.00
Buildings (718)	0.00	0.00
Lost Discounts (719)	0.00	0.00
Highway Construction (720)	0.00	0.00
Training of State Employees (721)	6,000.00	9,142.00
Computer Related Items (722)	15,004,000.00	7,984,216.98
State Prof. Svcs. (725)	2,191,300.00	2,986,592.84
Other Expenditures	116,886,200.00	113,035,084.09
TOTAL EXPENDITURES	117,881,500.00	113,925,127.68

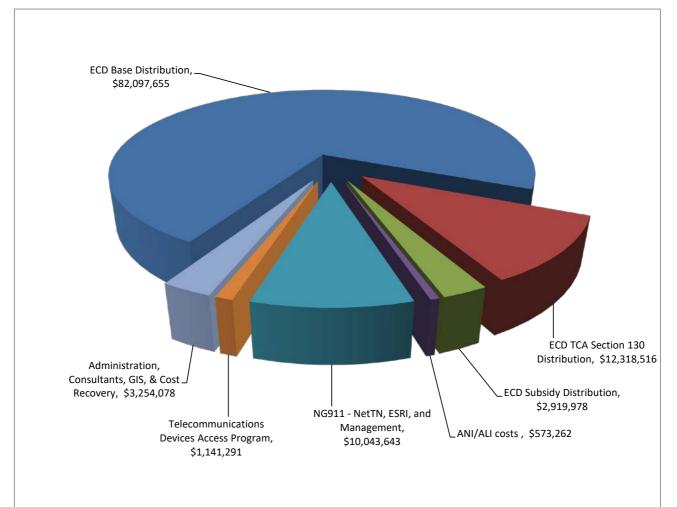
REVENUES	Adjusted <u>Work Plan</u>	Year-to-Date <u>Total</u>
E-911 Standard Surcharge	84,051,000.00	85,728,579.68
Prepaid Wireless Telephone Charge	19,817,000.00	19,923,853.11
Federal Revenue	0.00	0.00
Departmental Interest	400,000.00	714,629.99
Interdepartmental Revenue	2,400.00	0.00
TOTAL REVENUES	104,270,400.00	106,367,062.78
June 30, 2018 Fund Balance Note 3:	52,475,824.40	
June 30, 2019 Fund Balance Note 3:		45,423,836.94

Note 1: Data from Accrual Basis Financial Report. 3rd Preliminary Closing.

Note 2: Revenue does not include fund balance used to cover expenditures.

Note 3: The Fund Balance is determined by the Department of Finance and Administration.

## TENNESSEE EMERGENCY COMMUNICATIONS BOARD FY2019 TECB EXPENDITURES



Description	Expenditures		Percentage
ECD Base Distribution	82,097,655	85.4%	ECD total
ECD TCA Section 130 Distribution	12,318,516		
ECD Subsidy Distribution	2,919,978		
ANI/ALI costs	573,262	0.5%	ANI/ALI total
NG911 - NetTN, ESRI, and Management	11,224,726	9.9%	NG total
Telecommunications Devices Access Program	1,941,287	1.7%	TDAP total
Administration, Consultants, GIS, & Cost Recovery	2,849,704	2.5%	Admin total
Total Expenditures	\$ 113,925,128	100.0%	]

Note: Cash basis displayed on this schedule may differ from accrual basis.

TENNESSEE EMERGENCY COMMUNICATIONS BOARD TOTAL TECB PAYMENTS TO ECDs IN FY2019										
ECD	ANI/ALI	Adjusted Base	TCA 130 Funds	Subsidy Funds	Total					
Anderson	0	403,494	60,414	32,000	495,908					
Bedford	0	611,706	91,589	16,000	719,295					
Benton	0	272,569	42,858	0	315,427					
Bledsoe	2,880	292,854	43,848	8,000	347,582					
Blount	0	1,426,740	213,623	20,000	1,660,363					
Bradley	0	1,292,694	193,552	40,000	1,526,246					
Brentwood	0	864,126	129,384	44,000	1,037,510					
Bristol	0	497,574	74,501	24,000	596,075					
Campbell	5,280	479,820	71,842	12,000	568,942					
Cannon	2,041	291,630	43,665	12,000	349,336					
Carroll	5,160	412,920	61,826	20,000	499,906					
Carter	0	775,092	116,053	20,000	911,145					
Cheatham	0	492,036	73,672	16,000	581,708					
Chester	0	293,192	44,886	1,408	339,486					
Claiborne	0	534,510	80,031	16,000	630,541					
Clay	0	254,928	38,170	12,000	305,098					
Clinton	0	228,966	34,283	8,000	271,249					
Cocke	0	537,756	80,517	12,000	630,273					
Coffee	0	635,334	95,127	24,000	754,461					
Crockett	0	253,980	38,028	12,000	304,008					
	0									
Cumberland		877,776	131,428	24,000	1,033,204					
Davidson	0	6,684,210	1,000,813	196,000	7,881,023					
Decatur	8,816	257,106	38,496	12,000	316,418					
DeKalb	2,226	412,098	61,703	12,000	488,027					
Dickson	0	501,611	77,134	2,452	581,196					
Dyer	0	610,746	91,446	32,000	734,192					
Fayette	0	521,924	80,430	4,749	607,102					
Fentress	5,432	333,468	49,929	16,000	404,830					
Franklin	0	494,568	74,051	20,000	588,619					
Gibson	0	763,350	114,295	40,000	917,645					
Giles	0	525,137	81,356	0	606,493					
Grainger	12,534	388,560	58,178	12,000	471,272					
Greene	0	748,464	112,066	12,000	872,530					
Grundy	0	315,168	47,189	8,000	370,357					
Hamblen	0	904,362	135,408	28,000	1,067,770					
Hamilton	0	5,095,614	762,955	292,000	6,150,569					
Hancock	0	225,900	33,824	8,000	267,724					
Hardeman	0	377,890	56,983	12,000	446,873					
Hardin	0	435,864	65,261	12,000	513,125					
Hawkins	0	734,580	109,987	16,000	860,567					
Haywood	0	306,061	47,745	3,185	356,991					
Henderson	0	405,750	60,752	12,000	478,502					
Henry	0	467,784	70,040	20,000	557,824					
Hickman	0	334,974	50,155	12,000	397,129					
Houston	0	264,744	39,640	16,000	320,384					
Humphreys	0	378,654	56,695	16,000	451,349					
Jackson	0	282,414	42,285	8,000	332,699					
Jefferson	0	702,786	105,227	24,000						
					832,013					
Johnson Kingaport	0	373,758	55,962	12,000	441,720					
Kingsport	0	769,230	115,175	36,000	920,405					
Knox	0	5,938,206	889,115	48,000	6,875,321					
Lafollette	0	249,936	37,422	8,000	295,358					

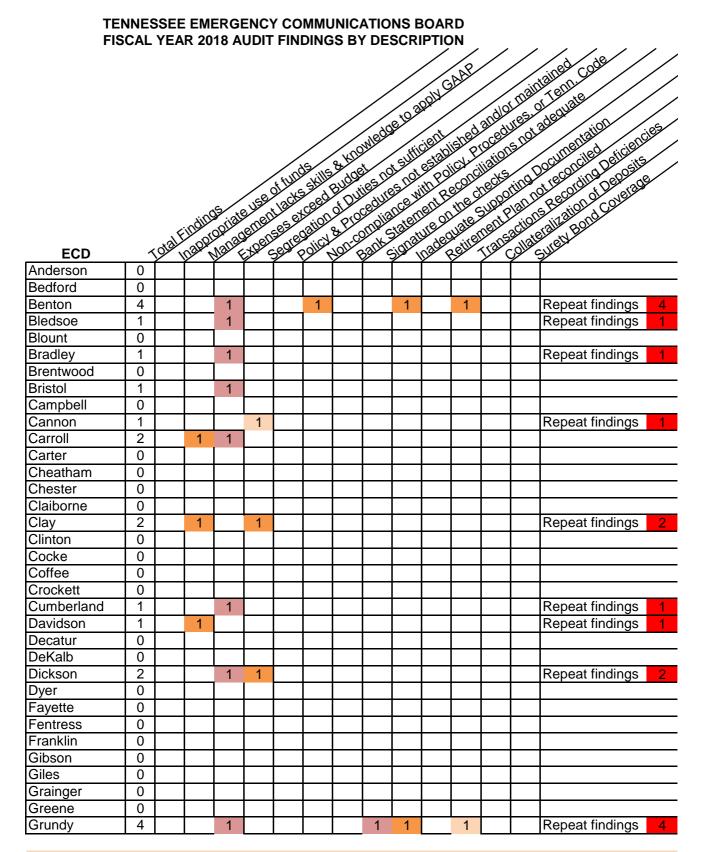
EXHIBIT D1

TENNESSEE EMERGENCY COMMUNICATIONS BOARD									
•	TOTAL TECB	PAYMENTS	<b>TO ECDs IN</b>	FY2019					
ECD	ANI/ALI	Adjusted Base	ICA 130 Funds	Subsidy Funds	Total				
Lake	0	201,414	30,157	8,000	239,571				
Lauderdale	0	387,230	59,190	0	446,420				
Lawrence	5,280	601,494	90,060	16,000	712,834				
Lewis	0	259,992	38,928	8,000	306,920				
Lincoln	0	442,776	66,296	16,000	525,072				
Loudon	0	591,444	88,556	44,000	724,000				
Macon	2,725	422,376	63,241	16,000	504,343				
Madison	0	1,194,906	178,911	64,000	1,437,817				
Marion	0	366,372	54,856	24,000	445,228				
Marshall	0	503,180	79,121	2,749	585,050				
Maury	0	1,114,659	170,988	0	1,285,647				
McMinn	0	612,204	91,664	32,000	735,868				
McNairy	0	408,282	61,131	12,000	481,413				
Meigs	0	248,472	37,203	12,000	297,675				
Monroe	0	499,842	74,840	16,000	590,682				
Montgomery	0	1,971,228	295,148	32,000	2,298,376				
Moore	0	197,094	29,510	12,000	238,604				
Morgan	0	362,988	54,349	12,000	429,337				
Oak Ridge	0	525,054	78,615	16,000	619,669				
Obion	0	545,538	82,979	3,342	631,860				
Overton - Pickett	0	644,520	96,503	24,000	765,023				
Perry	5,753	263,562	39,463	4,000	312,777				
Polk	0	279,096	41,788	16,000	336,884				
Putnam	0	800,646	119,879	36,000	956,525				
Rhea	0	496,824	74,388	16,000	587,212				
Roane	0	646,611	99,497	6,093	752,201				
Robertson	0	808,842	121,106	28,000	957,948				
Rutherford	0	1,736,058	259,936	164,000	2,159,994				
Scott	5,435	335,226	50,193	8,000	398,853				
Sequatchie	0,100	311,052	46,573	8,000	365,625				
Sevier	0	1,091,250	163,391	96,000	1,350,641				
Shelby	0	9,327,186	1,396,540	408,000	11,131,726				
Smith	0	308,958	46,260	8,000	363,218				
Stewart	0	271,986	40,724	8,000	320,710				
Sullivan	0	1,019,424	152,636	28,000	1,200,060				
Sumner	0	1,421,196	212,793	72,000	1,705,989				
Tipton	0	729,642	109,248	20,000	858,890				
Trousdale	0	211,470	31,663	8,000	251,133				
Unicoi	0	364,716	54,608	12,000	431,324				
Union	0	311,250	46,603	8,000	365,853				
Van Buren	0	231,672	34,688	8,000	274,360				
Warren	0	673,152	100,790	24,000	797,942				
Washington	0	1,839,444	275,416	48,000	2,162,860				
Wayne	3,804	314,844	47,141	48,000	373,789				
Weakley	0	451,836	67,652	20,000	539,488				
White	0	451,836	71,794	20,000	539,488				
Williamson	0	1,581,396							
			236,779	88,000	1,906,175				
Wilson	0	1,160,154	173,707	56,000	1,389,861				
Total	67,367	82,102,668	12,318,514	2,919,978	97,408,527				
	Noto: Cook hocis	mov diffor from							
	Note: Cash basis r	may unter nom acc	Judi udsis.						

#### TENNESSEE EMERGENCY COMMUNICATIONS BOARD TOTAL TECB PAYMENTS TO ECDs FROM 7/1/1999 THROUGH 6/30/2019

Emergency Communications District	Prior to 1/1/15 25% and ROF* Combined	Base, Excess & Subsidy Since 1/1/15		Total	Emergency Communications District	Prior to 1/1/15 25% and ROF* Combined	Base, Excess & Subsidy Since 1/1/15	Non-Recurring and Equipment Total Payments	Total
Anderson	2,585,198	1,947,189	798,510	5,330,897	Knox	23,352,617	28,460,356	2,154,738	53,967,711
Bedford	2,771,725	2,944,652	852,262	6,568,639	Lafollette	1,434,179	1,204,857	734,276	3,373,312
Benton	1,759,169	1,349,631	756,336	3,865,136	Lake	1,450,228	968,604	809,935	3,228,767
Bledsoe	1,579,816	1,410,148	892,403	3,882,366	Lauderdale	2,147,448	1,875,943	668,991	4,692,382
Blount	6,396,609	6,800,625	1,317,310	14,514,545	Lawrence	2,793,951	2,895,805	944,854	6,634,609
Bradley	5,185,054	6,230,034	1,271,784	12,686,873	Lewis	1,537,764	1,241,381	742,020	3,521,165
Brentwood	2,363,232	4,185,522	778,622	7,327,375	Lincoln	2,547,302	2,108,447	799,307	5,455,056
Bristol	2,062,694	2,371,728	841,617	5,276,039	Loudon	2,848,718	2,851,507	999,460	6,699,685
Campbell	2,502,872	2,328,602	859,978	5,691,452	Macon	2,109,734	2,039,025	837,658	4,986,417
Cannon	1,619,148	1,408,959	788,764	3,816,871	Madison	5,256,685	5,669,351	1,025,957	11,951,993
Carroll	2,342,084	1,973,611	870,106	5,185,801	Marion	2,189,200	1,759,078	813,828	4,762,106
Carter	3,408,962	3,730,846	978,704	8,118,513	Marshall	2,233,121	2,509,821	863,606	5,606,548
Cheatham	2,662,339	2,360,937	855,135	5,878,411	Maury	4,568,945	5,435,061	1,118,424	11,122,430
Chester	1,830,387	1,417,952	764,186	4,012,525	McMinn	3,280,509	2,920,539	842,780	7,043,829
Claiborne	2,563,588	2,575,399	797,180	5,936,166	McNairy	2,188,577	1,957,709	807,454	4,953,740
Claborne	1,462,833	1.233.401	891,931	3,588,165	Meigs	1,504,503	1,202,520	853,960	3,560,984
Clay	1,382,443	1,233,401	,		Monroe		2,381,677		, ,
			744,945	3,223,717		2,822,993	, ,	844,978	6,049,648
Cocke	2,528,825	2,573,206	826,801	5,928,832	Montgomery	7,547,834	9,466,350	1,515,690	18,529,875
Coffee	3,249,786	3,014,088	892,540	7,156,414	Moore	1,386,321	952,068	729,993	3,068,382
Crockett	1,605,322	1,218,192	753,870	3,577,384	Morgan	1,966,755	1,750,287	761,726	4,478,768
Cumberland	3,310,847	4,217,595	869,097	8,397,539	Oak Ridge	2,078,648	2,530,167	779,666	5,388,481
Davidson	29,306,750	31,696,892	2,832,356	63,835,998	Obion	2,536,656	2,620,035	869,936	6,026,627
Decatur	1,606,419	1,231,641	872,019	3,710,079	Overton-Pickett	3,367,188	3,110,944	1,468,873	7,947,005
DeKalb	1,952,013	1,985,196	793,020	4,730,229	Perry	1,484,824	1,265,368	906,440	3,656,633
Dickson	2,955,647	2,414,122	841,683	6,211,453	Polk	1,754,846	1,340,973	929,890	4,025,709
Dyer	2,836,033	2,934,878	811,809	6,582,720	Putnam	3,734,783	3,804,106	949,173	8,488,061
Fayette	2,559,195	2,562,306	803,683	5,925,184	Rhea	2,387,802	2,395,134	840,979	5,623,915
Fentress	1,940,116	1,594,652	813,557	4,348,325	Roane	3,297,766	3,170,787	861,122	7,329,675
Franklin	2,678,281	2,357,186	823,154	5,858,622	Robertson	3,456,883	3,901,615	857,697	8,216,195
Gibson	3,037,793	3,698,010	868,959	7,604,763	Rutherford	9,542,899	8,329,804	1,256,292	19,128,994
Giles	2,296,848	2,582,415	802,509	5,681,773	Scott	2,030,954	1,592,800	835,770	4,459,523
Grainger	2,060,049	1,872,606	1,081,419	5,014,075	Sequatchie	1,561,025	1,497,195	895,947	3,954,167
Greene	3,596,042	3,541,027	864,945	8,002,014	Sevier	4,779,201	5,223,110	1,058,116	11,060,427
Grundy	1,632,295	1,516,883	851,282	4,000,460	Shelby	39,392,065	44,346,241	3,339,329	87,077,635
Hamblen	3,541,249	4,344,180	973,914	8,859,343	Smith	1,898,073	1,477,634	758,257	4,133,964
Hamilton	21,167,831	24,714,591	1,617,136	47,499,558	Stewart	1,590,858	1,303,985	744,337	3,639,180
Hancock	1,426,271	1,089,885	731,695	3,247,851	Sullivan	4,939,158	4,908,897	1,042,996	10,891,051
Hardeman	2,248,055	1,812,885	780,625	4,841,565	Sumner	7,469,597	6,789,797	1,062,882	15,322,277
Hardin	2,132,166	2,069,196	814,694	5,016,056	Tipton	3,348,428	3,513,444	859,277	7,721,149
Hawkins	3,322,899	3,500,539	1,035,213	7,858,652	Trousdale	1,320,481	1,016,358	732,766	3,069,605
Haywood		1,506,562		4,245,511	Unicoi		1,758,553		4,447,664
Haywood Henderson	1,976,466 2,150,413	1,930,612	762,483 814,069	4,245,511	Union	1,921,112 1,904,654	1,498,142	767,999	4,447,664
								777,954	
Henry	2,541,484	2,228,696	832,829	5,603,009	Van Buren	1,384,225	1,117,494	832,092	3,333,812
Hickman	2,081,704	1,599,487	767,470	4,448,661	Warren	2,800,903	3,247,900	768,028	6,816,831
Houston	1,470,569	1,285,020	751,843	3,507,432	Washington	6,541,003	8,854,649	1,264,553	16,660,205
Humphreys	1,978,044	1,829,889	758,254	4,566,186	Wayne	1,772,973	1,508,542	792,982	4,074,497
Jackson	1,553,122	1,360,210	801,220	3,714,552	Weakley	2,713,507	2,161,181	934,109	5,808,797
Jefferson	3,019,859	3,373,268	921,055	7,314,182	White	2,121,316	2,316,915	939,858	5,378,089
Johnson	1,920,866	1,801,804	773,995	4,496,665	Williamson	6,718,592	7,554,440	1,058,720	15,331,752
Kingsport	2,982,399	3,634,799	1,007,931	7,625,129	Wilson	5,891,088	5,510,863	1,024,800	12,426,751
			crual basis.		Grand Total	380,052,705	393,775,545	94,687,378	868,515,628

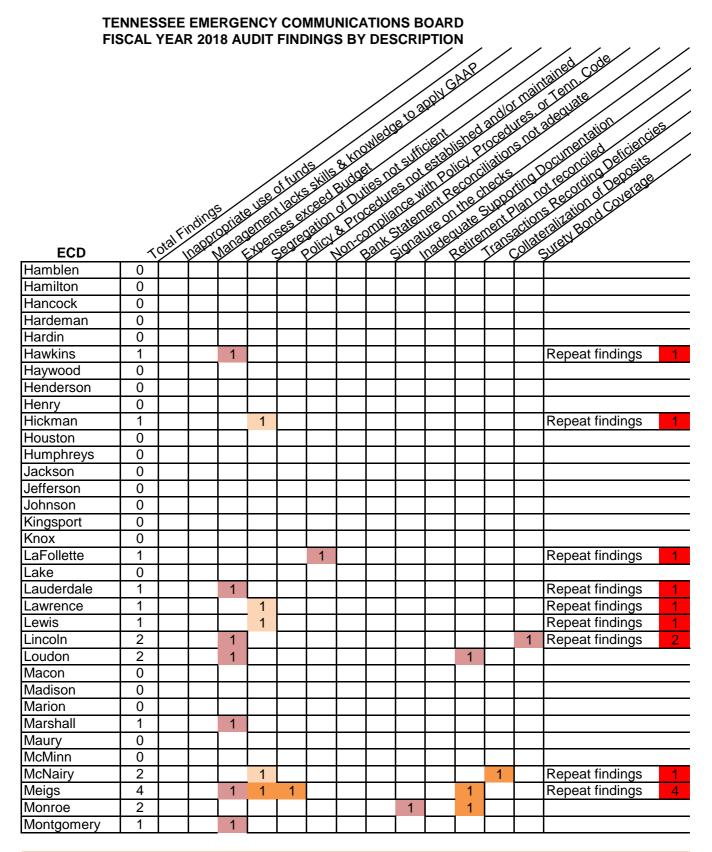
\* ROF = Recurring Operational Funding



A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected

A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

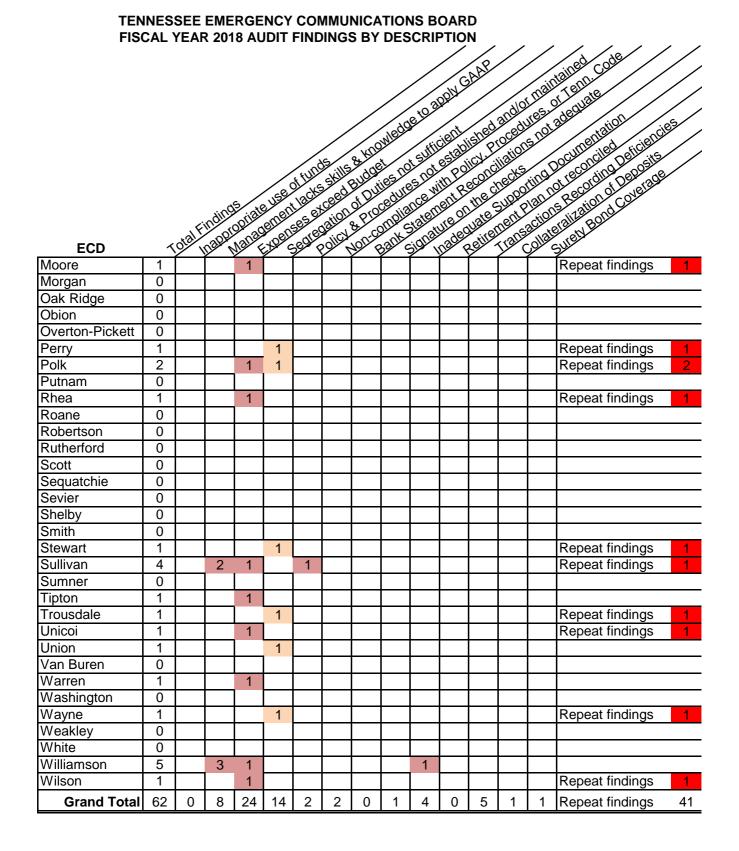
A compliance issue results from requirements of certain provisions of laws, regulations, contracts, and grant agreements. Noncompliance could have a direct and material effect on the determination of financial statement amounts. Material instances of noncompliance are required to be reported under Government Auditing Standards.



A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a

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A compliance issue results from requirements of certain provisions of laws, regulations, contracts, and grant agreements. Noncompliance could have a direct and material effect on the determination of financial statement amounts. Material instances of noncompliance are required to be reported under Government Auditing Standards.



A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis.

A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

A compliance issue results from requirements of certain provisions of laws, regulations, contracts, and grant agreements. Noncompliance could have a direct and material effect on the determination of financial statement amounts. Material instances of noncompliance are required to be reported under Government Auditing Standards.

TENNESSEE EMERGENCY COMMUNICATIONS BOARD										
Emergency Communications Districts - Base Amount and Adjustments										
Emergency Communications District	Base Established 8/3/16	Subsidy Established 5/2/18	Agreed Annual Deductions	FY2019 Total Base Funding						
Anderson	403,494	32,000		435,494						
Bedford	611,706	16,000		627,706						
Benton	286,236	0	(12,000)	274,236						
Bledsoe	292,854	8,000		300,854						
Blount	1,426,740	20,000		1,446,740						
Bradley	1,292,694	40,000		1,332,694						
Brentwood	864,126	44,000		908,126						
Bristol	497,574	24,000		521,574						
Campbell	479,820	12,000		491,820						
Cannon	291,630	12,000		303,630						
Carroll	412,920	20,000		432,920						
Carter	775,092	20,000		795,092						
Cheatham	492,036	16,000		508,036						
Chester	299,784	1,408	(12,000)	289,192						
Claiborne	534,510	16,000		550,510						
Clay	254,928	12,000		266,928						
Clinton	228,966	8,000		236,966						
Cocke	537,756	12,000		549,756						
Coffee	635,334	24,000		659,334						
Crockett	253,980	12,000		265,980						
Cumberland	877,776	24,000		901,776						
Davidson	6,684,210	196,000		6,880,210						
Decatur	257,106	12,000		269,106						
DeKalb	412,098	12,000		424,098						
Dickson	515,160	2,452	(16,000)	501,612						
Dyer	610,746	32,000	, í	642,746						
Fayette	537,174	4,749	(20,000)	521,923						
Fentress	333,468	16,000		349,468						
Franklin	494,568	20,000		514,568						
Gibson	763,350	40,000		803,350						
Giles	543,360	0	(16,000)	527,360						
Grainger	388,560	12,000	, í	400,560						
Greene	748,464	12,000		760,464						
Grundy	315,168	8,000		323,168						
Hamblen	904,362	28,000		932,362						
Hamilton	5,095,614	292,000		5,387,614						
Hancock	225,900	8,000		233,900						
Hardeman	380,580	12,000	(12,000)	380,580						
Hardin	435,864	12,000		447,864						
Hawkins	734,580	16,000		750,580						
Haywood	318,876	3,185	(16,000)	306,061						
Henderson	405,750	12,000	( ),	417,750						
Henry	467,784	20,000		487,784						
Hickman	334,974	12,000		346,974						
Houston	264,744	16,000		280,744						
Humphreys	378,654	16,000		394,654						
Jackson	282,414	8,000		290,414						
Jefferson	702,786	24,000		726,786						
Johnson	373,758	12,000		385,758						
Kingsport	769,230	36,000		805,230						

TENNESSEE EMERGENCY COMMUNICATIONS BOARD Emergency Communications Districts - Base Amount and Adjustments						
Emergency Communications District	Base Established 8/3/16	Subsidy Established 5/2/18	Agreed Annual Deductions	FY2019 Total Base Funding		
Knox	5,938,206	48,000		5,986,206		
Lafollette	249,936	8,000		257,936		
Lake	201,414	8,000		209,414		
Lauderdale	395,316	0	(8,000)	387,316		
Lawrence	601,494	16,000		617,494		
Lewis	259,992	8,000		267,992		
Lincoln	442,776	16,000		458,776		
Loudon	591,444	44,000		635,444		
Macon	422,376	16,000		438,376		
Madison	1,194,906	64,000		1,258,906		
Marion	366,372	24,000		390,372		
Marshall	528,432	2,749	(28,000)	503,181		
Maury	1,141,992	0	(24,000)	1,117,992		
McMinn	612,204	32,000		644,204		
McNairy	408,282	12,000		420,282		
Meigs	248,472	12,000		260,472		
Monroe	499,842	16,000		515,842		
Montgomery	1,971,228	32,000		2,003,228		
Moore	197,094	12,000		209,094		
Morgan	362,988	12,000		374,988		
Oak Ridge	525,054	16,000		541,054		
Obion	554,196	3,342	(12,000)	545,538		
Overton Pickett	644,520	24,000		668,520		
Perry	263,562	4,000		267,562		
Polk	279,096	16,000		295,096		
Putnam	800,646	36,000		836,646		
Rhea	496,824	16,000		512,824		
Roane	664,518	6,093	(24,000)	646,611		
Robertson	808,842	28,000		836,842		
Rutherford	1,736,058	164,000		1,900,058		
Scott	335,226	8,000		343,226		
Sequatchie	311,052	8,000		319,052		
Sevier	1,091,250	96,000		1,187,250		
Shelby	9,327,186	408,000		9,735,186		
Smith	308,958	8,000		316,958		
Stewart	271,986	8,000		279,986		
Sullivan	1,019,424	28,000		1,047,424		
Sumner	1,421,196	72,000		1,493,196		
Tipton	729,642	20,000		749,642		
Trousdale	211,470	8,000		219,470		
Unicoi	364,716	12,000		376,716		
Union	311,250	8,000		319,250		
Van Buren	231,672	8,000		239,672		
Warren	673,152	24,000		697,152		
Washington	1,839,444	48,000		1,887,444		
Wayne	314,844	8,000		322,844		
Weakley	451,836	20,000		471,836		
White	479,496	20,000		499,496		
Williamson	1,581,396	88,000		1,669,396		
Wilson	1,160,154	56,000		1,216,154		

TENNESSEE EMERGENCY COMMUNICATIONS BOARD							
Emergency Communications Districts - Base Amount and Adjustments							
Emergency		Subsidy					
Communications	Base Established	Established	Agreed Annual	FY2019 Total Base			
District	8/3/16	5/2/18	Deductions	Funding			
	82,272,690	2,919,978	(200,000)	84,992,668			



Tennessee Emergency Communications Board, Authorization No. 335572, Number of copies, 50. This public document was promulgated at a cost of \$4.14 per copy. January, 2020.