

LOS ANGELES UNIFIED SCHOOL DISTRICT

SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE

Quynh Nguyen, Chair

LAUSD Student Parent

Susan Linschoten, Secretary

L.A. Co. Auditor-Controller's Office

Stuart Magruder, Executive Committee

American Institute of Architects

Rachel Greene, Executive Committee

Tenth District PTSA

Bevin Ashenmiller

LAUSD Student Parent

Araceli Sandoval-Gonzalez

Early Education Coalition

Greg Good

L.A. City Mayor's Office

Michael Keeley

CA Charter School Association

Karen Krygier

L.A. City Controller's Office

Kate Mergen

Assoc. General Contractors of CA

Ron Miller

L.A. Co. Federation of Labor AFL-CIO

Scott Pansky

L.A. Area Chamber of Commerce

Dolores Sobalvarro

AARP

Kathryn Steinberg

31st District PTSA

Celia Ayala (Alternate)

Early Education Coalition

Arlene Barrera (Alternate)

L.A. Co. Auditor-Controller's Office

(Vacant)

CA Tax Reform Assn.

Joseph P. Buchman – Legal Counsel

Burke, Williams & Sorensen, LLP

(Vacant)

Oversight Committee Consultant

Timothy Popejoy

Bond Oversight Administrator

Daniel Hwang

Asst. Administrative Analyst

RESOLUTION 2018-19

BOARD REPORT NO. 529-17/18

**AMENDMENT TO THE INFORMATION TECHNOLOGY DIVISION STRATEGIC
EXECUTION PLAN TO APPROVE THE RADIO SYSTEM MODERNIZATION
PROJECT**

WHEREAS, District Staff proposes that the Board of Education approve an amendment to the Information Technology Division (ITD) Strategic Execution Plan (SEP) to approve the following actions:

- Approve the definition of the Radio Systems Modernization Project.
- Approve the allocation of new sources of capital funds into the ITD managed portion of the School Upgrade Program (SUP) category of need as follows: \$11,401,895 from cost savings from completed Rebanding and Narrow Banding Radio Projects in the ITD SEP.
- Approve an increase in the spending target associated with the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need.
- Allocate \$38,088,895 of bond funds from the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need to execute the Radio Systems Modernization Project, as described in Attachment A;

WHEREAS, the SUP includes a spending target to address “Upgrade Districtwide Emergency Radio System Servicing Schools”; and

WHEREAS, the intended outcomes of the proposed project to be executed within this spending target are as follows:

RESOLUTION 2018-19

AMENDMENT TO THE INFORMATION TECHNOLOGY DIVISION STRATEGIC EXECUTION PLAN TO APPROVE THE RADIO SYSTEM MODERNIZATION PROJECT

- The Radio Systems Modernization Project will unify LAUSD's various radio systems into one that is scalable and has the ability to add new features or integrate newer technologies. The unified radio system will also have increased capacity to obtain critical and timely information from schools to improve response times or dispatch critical resources in the case of an emergency; and

WHEREAS, the Radio Systems Modernization Project is consistent with the District's commitment to address critical technology, communications, and safety needs; and

WHEREAS, District Staff has concluded that the proposed SEP amendment will facilitate implementation of the ITD SEP, and therefore, it will not adversely affect the District's ability to successfully complete the ITD SEP.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The School Construction Citizens' Bond Oversight Committee recommends that the Board of Education adopt an Amendment to the Information Technology Division Strategic Execution Plan to approve the Radio Systems Modernization Project described in detail in Board Report 529-17/18, a copy of which is attached hereto in the form it was presented to the BOC and is incorporated herein by reference.
2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the Oversight Committee's website.
3. The District is directed to track the above recommendation and to report on the adoption, rejection, or pending status of the recommendations as provided in section 6.2 of the Charter and Memorandum of Understanding between the Oversight Committee and the District.

ADOPTED on May 31, 2018 by the following vote:

AYES: 9

ABSTENTIONS: 0

NAYS: 0

ABSENCES: 5

Quynh Nguyen

Quynh Nguyen
Chair

Stuart Magruder

Stuart Magruder
Executive Committee



Board of Education Report

File #: Rep-529-17/18, **Version:** 1

Amendment to the Information Technology Division Strategic Execution Plan to Approve the Radio Systems Modernization Project
June 12, 2018
Information Technology Division

Action Proposed:

Staff proposes that the Board of Education amend the Information Technology Division (ITD) Strategic Execution Plan (SEP) to approve the following actions:

- Approve the definition of the Radio Systems Modernization Project.
- Approve the allocation of new sources of capital funds into the ITD managed portion of the School Upgrade Program (SUP) category of need as follows: \$11,401,895 from cost savings from completed Rebanding and Narrow Banding Radio Projects in the ITD SEP.
- Approve an increase in the spending target associated with the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need.
- Allocate \$38,088,895 of bond funds from the “Upgrade Districtwide Emergency Radio System Servicing Schools” SUP category of capital need to execute the Radio Systems Modernization Project, as described in Attachment A.

Background:

On January 14, 2014, the Board of Education approved the establishment of the School Upgrade Program (SUP), the next phase of the District's Bond Program which will modernize, build and repair school facilities to improve student health, safety and educational quality. The Board's action approved the overarching goals and principles, funding sources, specific categories of need, and spending targets for the SUP. As proposed projects are developed, they are submitted to the Bond Oversight Committee (BOC) for consideration and the Board of Education for approval.

The SUP includes a spending target to “Upgrade Districtwide Emergency Radio System Servicing Schools.” The intended outcomes of the proposed project to be executed within this spending target are as follows:

- The Radio Systems Modernization Project will unify LAUSD’s various radio systems into one that is scalable and has the ability to add new features or integrate newer technologies. The unified radio system will also have increased capacity to obtain critical and timely information from schools to improve response times or dispatch critical resources in the case of an emergency. \$38,088,895 (100% Bond Fund).

If approved, ITD will provide quarterly updates.

Expected Outcomes:

Staff anticipates that the Board will amend the ITD-SEP to define the Radio Systems Modernization Project described herein and allocate \$38,088,895 of Bond Program funding. This project will help address the critical needs of the District's emergency radio system.

Board Options and Consequences:

Failure or delay of approval will postpone the execution and/or implementation of the Radio Systems Modernization Project and the associated benefit to the schools and students.

Policy Implications:

This action is consistent with the District's long-term goal to address unmet school needs as described in Proposition BB and Measures K,R,Y, and Q.

Budget Impact:

The Radio Systems Modernization Project has a total budget of \$38,088,895 of Bond Program funding. This funding will be allocated from the following sources:

Amount	Funding Source
\$11,401,895	Bond Funds from cost savings from completed Rebanding and Narrow Banding Radio Projects in ITD SEP
\$26,687,000	Bond Funds from "Upgrade Districtwide Emergency Radio System Servicing Schools" SUP category of need
\$38,088,895	GRAND TOTAL

Issues and Analysis:

Attachments:

Attachment A - Project Definitions and Associated Actions

Attachment B - Bond Oversight Committee Meeting Presentation

Attachment C - Bond Oversight Committee Resolution

Informatives:

None.

Submitted:

RESPECTFULLY SUBMITTED,

APPROVED & PRESENTED BY:

AUSTIN BEUTNER
Superintendent



SHAHRYAR KHAZEI
Chief Information Officer
Information Technology Division

REVIEWED BY:

DAVID HOLMQUIST
General Counsel

☐ Approved as to form.

REVIEWED BY:

CHERYL SIMPSON
Director, Budget Services and
Financial Planning

☐ Approved as to budget impact statement.

MARK HOVATTER
Chief Facilities Executive

☐ Approved as to impacts to facilities.



Information Technology Strategic Execution Plan Project Definitions and Associated Actions Attachment A – BOE #529-17/18

Program: Safety, Communications, and Security
Project: Radio System Modernization Project
Budget: \$38,088,895 (100% Bond)

Introduction

The current condition and limitations of the District's radio systems presents challenges to school, school police, emergency operations, and transportation staff. The radio systems were designed based on needs identified in the 1980's, providing two radio systems, one made up of five frequencies for bus transportation, and a second radio system made up of two different frequencies for School Police.

Current Conditions

- The Radio system primarily used by Bus Transportation Radio is obsolete and does not interoperate with other agencies or newer technologies.
- The Radio System and frequencies used by School Police, Emergency Operations, and schools is oversubscribed and overloaded. During major emergencies, elementary and small schools must call a secondary school who in turn radios information to the District's Emergency Operations Center.
- Both Radio systems have coverage issues and cannot communicate with each other.
- Both Radio Systems lack redundancy or back-up capabilities.
- Challenges when communicating with other First Responder and Emergency Service Agencies that have newer Radio technologies.

To meet Federal Communications Commission (FCC) mandates and timelines the Radio Project had to be completed as three projects. The Narrowband Project fulfilled the requirement for the District to move radio frequencies for schools, School Police, and Emergency Operations to half of the original frequencies (from 25 Mhz to 12.5 Mhz), upgraded equipment and replaced radios that communicated on two frequencies.

The Reband Project fulfilled the requirement for the District to move the Transportation Radio System to a new set of frequencies (primarily funded by Sprint through an FCC agreement. The scope was a like-for-like exchange of analog technologies). The locations of the frequencies required a treaty between the United States and Mexico. This delayed the project almost 10 years. This work had to be completed before the District could do any major radio equipment upgrades.

The Radio System Modernization Project will upgrade and modernize the District's radio system infrastructure and unify the District's radio systems onto one system using the seven available frequencies while replacing obsolete analog and aging technologies from both legacy radio systems.



Information Technology Strategic Execution Plan Project Definitions and Associated Actions Attachment A – BOE #529-17/18

The modernized radio system will give staff the ability to allocate voice or radio communication resources during emergencies based upon established priorities and needs. The design allows full flexibility for best use of the limited frequencies. Major fires in the valley earlier this year emphasized the need for increased radio resources and flexibility to communicate just-in-time decisions to school police and school staff to keep students and staff safe.

Scope

- Architect, design, and engineer a highly reliable Unified Radio Communication System
- Design and build to be Criminal Justice Information Services (CJIS) compliant
- Design to maximize limited Radio resources and integrate new wireless technologies to meet capacity needs, improve coverage, and increase reliability.
- Replace the obsolete analog 800MHz system to meet required P25 digital specifications and requirements
- Replace both 800 MHz and 450 MHz systems with a unified system fully interoperable with other first responder emergency agencies.
- Replace schools, School Police, Transportation, and Emergency operation staff obsolete and aging radios.

Expected Outcomes

- Improved reliability and availability of critical communications
- Increased capacity to obtain critical timely information from schools to improve response times to be able to dispatch critical resources
- Increased ability for school and support staff more easily communicate and share information with other Police, Fire, and Emergency Agencies
- Ability to fail over to other available technologies and commercially available public safety core to ensure maximum uptime if the Radio core fails
- Secured communications
- Up-to-date scalable and flexible Radio System that provides to scale up to accommodate more users and has the ability to add new features or integrate newer technologies.

Schedule

Estimated completion is June 2021.