UHF-to-VHF TRANSITION

SCOPE

KVCR will be transitioning from ultra-high frequency (UHF) channel 24 to very-high frequency (VHF) channel 5. The scope includes replacing the existing transmitter and antenna solutions systems located at 10550 Box Springs Mountain Rd., Moreno Valley, CA 92324. District Facilities Planning & Construction and KVCR have formed a collaborative and expert team and are working towards the successful delivery of this project.

SCHEDULE

The project has five major milestones. The District has successfully fulfilled the first two.

1. File FCC construction permit by July 12, 2017. ✓
2. Tower permit received on October 2, 2018. ✓
3. Complete construction of new tower by December 1, 2018 and start testing.
4. Complete installation of both antenna and transmitter solution systems by January 28, 2019.
5. KVCR goes live with VHF transmission by April 12, 2019.

CHALLENGES

- The existing KVCR FM antenna attached to the existing tower (3-leg) would not fit into the configuration of the new 345-foot broadcasting tower (4-leg). This will require a new FM antenna. After further negotiation with Jampro Antenna, Inc., the new FM antenna will cost the District about $148,000 for labor, materials, equipment, taxes, shipping and handling. The amendment was approved by the Board of Trustees on September 13, 2018. Coordination work is still ongoing between different vendors and consultants.

PROCUREMENT

- Antenna: Jampro Antenna, Inc. (BOT approved on October 12, 2017 and subsequently September 13, 2018) is procuring the TV and FM antenna.

- Transmitter: GatesAir (BOT approved on March 8, 2018) is procuring Transmitter system. The District selected GatesAir and Salvador Castillo (BOT approval requested October 11, 2018) as independent contractors to provide technical services for the transmitter facility and the integration scope with the new antenna/tower systems.

- New Broadcasting Tower: Sabre Communications Corporation (BOT approved on March 8, 2018) is procuring the new tower.

COST

The District has secured major contractors for this transition and it is anticipated to be between $3.5 – $4.0 million. District staff and KVCR staff have managed this project initiative.

CONSTRUCTION PROGRESS

- The new tower design has received all federal, states, and local permits, and construction will start the week of October 8, 2018.
- The design of the new TV antenna system by Jampro Antenna is in progress.
- The design of the new TV transmitter by GatesAir Inc. is in progress.
- Survey the new tower facility area per the approved design at Box Spring and fence it up.

THINGS TO FOLLOW

- Potentially amending the lease agreement with the property owner at Moreno Valley.
- Procuring contractor to remove the old transmitter and install GatesAir Transmitter.
- Installing Tower by December 1, 2018. TV and FM antenna installation by December 31, 2018; Transmitter installation by January 31, 2019.

TECHNOLOGY CORE MODERNIZATION

SCOPE

KVCR will be transitioning from ultra-high frequency (UHF) channel 24 to very-high frequency (VHF) channel 5 and will need to upgrade its existing technology and equipment to accommodate the transition. The project scope includes modernizing and updating the TV and radio studio to better serve the station and community.

The overall scope of this initiative includes two major components:

1. Technology & Equipment Upgrades to TV and Radio Station at KVCR facility.
2. Space Repurposing, Reutilization, and Maximization.

SCHEDULE

- Hire a professional consultant (program manager) to oversee the project from programming development to closeout under the supervision of District staff. ✓
- Scope development, perform needs assessment, and develop an overall budget. ✓
- Solicit a design professional team to design the system upgrade by February 8, 2018. ✓
- Procure TV and Radio station equipment separately by August 2018. Recommendation has been submitted to the BOT in August 9, 2018. ✓
- Solicit an integrator (contractor) to procure, install the technology upgrade by June 30, 2018.
- Complete the design of the building repurposing and received DSA permit by January 10, 2019.
- Complete the building repurposing, procure furniture, and staff move by June 30, 2019.

CHALLENGES

- It is imperative that the “portion of” technology core equipment and system upgrades are complete and the transition is complete to maintain FCC deadline in order to mitigate any potential penalties and loss of license.

- System design implementations:

  - Introduce and implement advanced television system committee (ATSC 3.0) for KVCR.
  - Discuss and implement offsite master control, which could potentially save in the technology core upgrade project budget and will lower KVCR annual operating cost.

- Part of the scope is repurposing the existing space, which will require a building architect and engineer to maximize for potential KVCR/FNX staff growth.

- Due to the technology rapid evolving and new ATSC 3.0 generation, many new high tech companies are warping up their design packages to launch the new system generation. Therefore, the District, KVCR alongside with the system engineer team have decided to re-strategize integration procurement package. The District under an RFP process will procure the main TV and Radio station equipment separately and the installation will be part of the construction (integration) services procured under RFQ/RFP process.

- Since KVCR is looking at repurposing more of the broadcast areas to maximize their efficiency and accommodate the new technology, some of large piece of the integration will move after the repurposing is complete. Since KVCR facility is under the Division of State Architects (DSA) umbrella, it is expected to take longer than planned. We are discussing this internally to see the impact to the overall schedule and talk to DSA/consultant for expeditions.

PROCUREMENT

- Procure a design professional team through an RFQ/RFP. ✓
- Engage the District with Public Media Management (PMM) for the master joint control. Some of the benefits to the District/KVCR for the master control system are: no up-front investment is required, cloud -based sourcing, reduced cost of station operation, significant reduction of capital investment at the station level, retention of control over KVCR local schedule deadlines, no need for expensive dedicated high-capacity fiber connectivity, general reduction in KVCR's need for storage, built-in disaster recovery, etc. BOT approved this contract on July 12, 2018. ✓
- Procure the radio and TV production systems and equipment. To be installed by the integrator. Pending BOT approval August 9, 2018. ✓
- For the technology core modernization scope, the District staff issued a request for qualification (RFQ) and secured (3) prequalified vendors. RFP is due in January 8, 2019 for February 11, 2019 BOT approval.
- Procure a general contractor for building repurpose via RFQ/RFP process and recommend approval to BOT for approval on February 11, 2019.

CONSTRUCTION PROGRESS

- The tech core (technology and equipment upgrade) system design by Key Code Media is in the progress. The design will complete by November 30, 2018.
- The district has engaged DLR Group for architectural services, under a district master services agreement, to start the space design and repurposing for phase1 (broadcast space associated with technology upgrade) and phase 2 (open offices and FF&E upgrades and

space maximization). The design will need to be submitted for Division of the State Architect (DSA) review and approval. Potentially, there is a contract amendment to DLR for added scope of design into their services, will be sent out to BOT for approval on November 8, 2018.

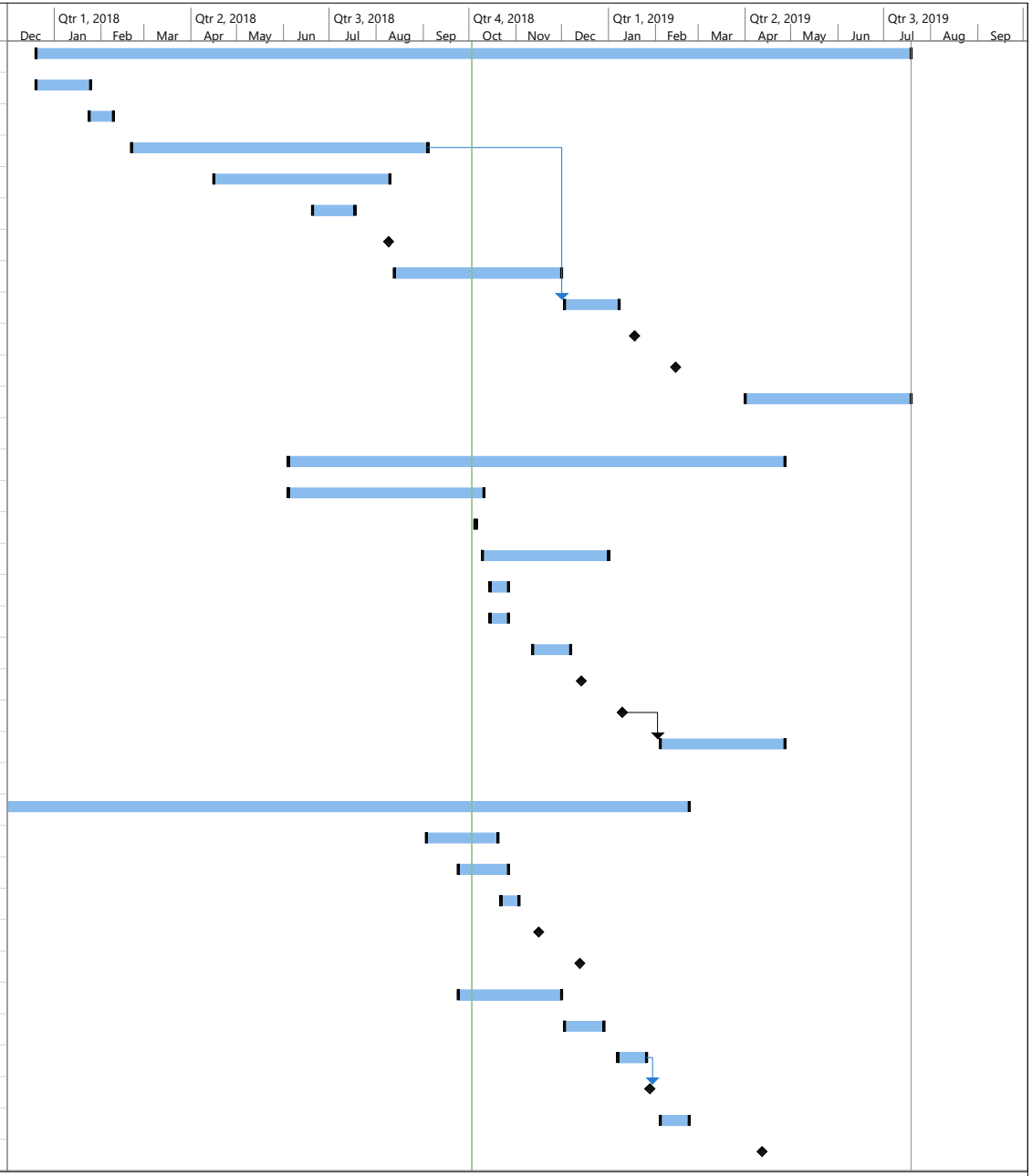
COST

The overall cost for both project components is about $12.0 – $12.5 million.

THINGS TO FOLLOW

- Finish the design for the technology and equipment upgrade by November 30, 2018.
- Issue a Request for Proposal (RFP) for the (3) prequalified vendors for the technology core project and submit to the board for approval in February 11, 2019.
- Finish the design of the space and repurposing of phase 1 and phase 2. Receive DSA approval and bid the project.
- Start the technology system integration and construction services.

ID	Task Name	Duration	Start	Finish
1	BROADCAST	83 wks	Wed 12/20/17	Thu 7/18/19
2	Pre-Design/ Programming	5.2 wks	Wed 12/20/17	Wed 1/24/18
3	Board Submission/ Approval	2.4 wks	Wed 1/24/18	Thu 2/8/18
4	Broadcast Design and Documentation	7 mons	Wed 2/21/18	Mon 9/3/18
5	Pre-Qualification	4.25 mons	Mon 4/16/18	Thu 8/9/18
6	Core Technology Equipment Bid	4 wks	Wed 6/20/18	Tue 7/17/18
7	Equipment Bid Board Approval	1 day	Thu 8/9/18	Thu 8/9/18
8	Finalize Broadcast Bid Documents	16 wks	Mon 8/13/18	Fri 11/30/18
9	Broadcast Integration Bid	1.3 mons	Mon 12/3/18	Mon 1/7/19
10	Submit Documents to Board	1 day	Fri 1/18/19	Fri 1/18/19
11	Board Approval	1 day	Thu 2/14/19	Thu 2/14/19
12	Radio and Broadcast Integration	4 mons	Mon 4/1/19	Thu 7/18/19
13				
14	BUILDING REPURPOSE	47.2 wks	Mon 6/4/18	Fri 4/26/19
15	Design and Documentation	4.65 mons	Mon 6/4/18	Wed 10/10/18
16	DLR and KVCR User Meeting	1 day	Fri 10/5/18	Fri 10/5/18
17	DSA Submission	3 mons	Wed 10/10/18	Mon 12/31/18
18	Cost Estimate	2 wks	Mon 10/15/18	Fri 10/26/18
19	KVCR Document Review	2 wks	Mon 10/15/18	Fri 10/26/18
20	Bid	4 wks	Mon 11/12/18	Thu 12/6/18
21	Submit Documents to Board	1 day	Fri 12/14/18	Fri 12/14/18
22	Board Approval	1 day	Thu 1/10/19	Thu 1/10/19
23	Construction	3 mons	Mon 2/4/19	Fri 4/26/19
24				
25	TOWER	72.6 wks	Fri 10/6/17	Fri 2/22/19
26	Transmitter Documents	7 wks	Mon 9/3/18	Fri 10/19/18
27	Intial Transmitter and Site Demo (tentative)	5 wks	Mon 9/24/18	Fri 10/26/18
28	Transmitter Install Bid	2 wks	Mon 10/22/18	Fri 11/2/18
29	Transmitter Bid Board Submission	1 day	Fri 11/16/18	Fri 11/16/18
30	Transmitter Install Board Approval	1 day	Thu 12/13/18	Thu 12/13/18
31	Sabre Foundation and Tower Construction	2.5 mons	Mon 9/24/18	Fri 11/30/18
32	Jampro Antenna Installation	4 wks	Mon 12/3/18	Fri 12/28/18
33	Trasnmitter Installation	3 wks	Mon 1/7/19	Fri 1/25/19
34	New Channel Testing Start	1 day	Mon 1/28/19	Mon 1/28/19
35	Tower Demo	3 wks	Mon 2/4/19	Fri 2/22/19
36	KVCR Broadcast Deadline	1 day	Fri 4/12/19	Fri 4/12/19



Project: KVCR Project Schedule
DRAFT
Date: Wed 10/3/18

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress