



**ALBUQUERQUE
PUBLIC SCHOOLS**

Accelerate Progress for Students

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**RFP NO. 17-048RR-RA
ADDENDUM #3**

December 20, 2016

Please note the following clarification regarding the RFP:

- Questions and Answers see attached pages 1 - 4.
- Pre-Proposal Meeting Sign-In Sheets

Thank you for your interest in Albuquerque Public Schools

ACKNOWLEDGE ADDENDUM #1 WITH BID:

- Addenda not signed and returned will be considered as non-responsive and may be rejected.

COMPANY/FIRM NAME

SIGNATURE

DATE

Robert C. Russell, Senior Buyer

Question	Answer
Is the district aware of a current proposal before the City of ABQ to build out a city wide fiber network that would provide zero cost dark fiber to schools such as APS?	The district has had conversation with the City of Albuquerque and they are supportive of the efforts to fund this project through E-rate.
Page 5, Item 22, Confidential Data. Does APS agree that items such as fiber maps, proposed fiber construction routes and related information is considered confidential and thus not subject to public disclosure?	Fiber maps, fiber routes and related information will be treated as confidential and will not be subject to public disclosure.
Page 6, Item T&C 1. You state 8 years, and 20 years. These are very wide differences and affect how cost recovery will be factored in to the pricing. Your excel cost sheets do NOT reflect pricing for 8 years and for 20 years. Please advise.	In accordance with E-rate rules the district must select the most cost-effective service option considering the total cost of ownership (TCO) over the life of the asset and/or service. The maximum term allowable for the TCO analysis is 20 years. An addendum will be added to reflect 84 month pricing. Under state law the district cannot enter into a contract longer than 84 months. Therefore, the 10 year and 20 year pricing options will be removed from the RFP.
Page 7, Item B.1.b. This term has major legal issues with respects to other parts of this RFP relating to IRU, dark fiber lease, etc.	Page 7, Item B.1.b only applies to assets that will be owned by the district and does not apply to services.
Page 11. Please define "Owner" as in"Without the Owner's consent". For many of the proposed services, APS is not the "Owner".	This only applies to a proposed service where APS would be the "Owner" e.g. Owner Provisioned Fiber...
Does APS have a KMZ file of all proposed sites? Can this be provided?	Yes, it will be provided as an addendum
Page 14, Item 9. "The District prefers a VPLS solution..." VPLS is incompatible with IRU Fiber and Dark Fiber. Please advise	VPLS would be preferred on a Self-Provisioned proposal.
Page 16, Evaluation Criteria. The "Past Experience" section seems to require that highly sensitive and confidential documentation be provided. Some of this documentation may be restricted by Federal Law as it pertains to National Infrastructure, the protection of which is the responsibility of the carrier. As such it cannot be released except to persons with proper security and reliability clearances. How does APS plan to address this?	Vendors are not required to provide information that is restricted by Federal Law or confidential information. However, vendors should provide some reference information that will enable the district to determine the score under "Past Experience" and demonstrate their experience completing projects within the scale and scope of this RFP.
Appendix E, Statement of Confidentiality. This appears to require that each employee of each contractor that is awarded here must sign this document. From a legal perspective, there is no specific consideration provided to require someone to forever keep something confidential. As each and every employee of Qwest/CenturyLink that has ever touched a APS service or site signed one of these? Please advise.	The representative of your company will sign as a safeguard to keep confidential all information and material provided by Albuquerque Public Schools, and its employee/subcontractor without prior written permission from APS.
Attachment A, Statement of Work. The following questions relate to SOW	
Please define each of the terms a. Lit Services b. Leased Dark Fiber c. IRU Fiber d. "self-provisioned fiber construction"	Bidders should refer to the 2017 Eligible Services List (http://www.usac.org/sl/applicants/beforeyoubegin/eligible-services-list.aspx) and other relevant FCC rules and orders for definitions of these terms.

It is typical within the industry that Dark Fiber is simply Dark Fiber and that it is the responsibility of the customer to supply whatever terminating equipment is needed. How can we know what APS wants now or in the future for connectivity and thus how to energize the dark fiber? Same for IRU Fiber.

The district is asking for a solution that will meet the requirement in the Statement of Work, Page 2, Chart A: Projected WAN Growth Over Five Years. Vendors should also refer to the Network Electronics section for details relating to required network electronics. A dark fiber bidder is not required to also bid the network electronics.

No page number on the SoW section. The document says 1000 Gbps or greater (up to 10Gbps). 1000 Gbps is much larger than 10Gbps. Please clarify

This was a typo, should read: (1000 Mbps or greater (up to 10Gbps)).

How did APS get to the 11% as the current tax rate, what are the specific elements that make up that 11%

The taxes are based on the tax rates for the current services. The district is currently being charged City Sales Tax and Universal Service Fund charges.

Please define TR/ER/MDF/etc.

TR: Telecommunication Room, ER: Equipment Room, Main Distribution Facility

What is the difference (in the mind of APS) between Leased Dark Fiber and IRU?

Bidders should refer to the 2017 Eligible Services List (<http://www.usac.org/si/applicants/beforeyoubegin/eligible-services-list.aspx>) and other relevant FCC rules and orders for definitions of these terms.

The "Fiber (Lit, Leased)" bandwidth. Leased fiber has nearly infinite bandwidth. The actual bandwidth is dependent on what equipment the end customer connects to the fiber. Why must one put speeds on leased/dark/iru fiber? This is NOT normally how it's done in the industry.

The purpose of this requirement is to allow the district to make and apple-to-apples comparison across the various solutions. In order to comply with E-rate requirements the district must compare the total cost of ownership for the various solutions using like parameters.

Lite two strands of fiber to each location. In what kind of topology does the district plan to do this?

As explained on page 4 of the SOW, the district is open to various designs that meet the requirements in the Statement of Work in a cost effective manner. Vendors should provide a proposed solution that meets these requirements.

What is the total number of dark fiber strands the district expects to have on this network? How does network topology play into this?

As explained on page 4 of the SOW, the district is open to various designs that meet the requirements in the Statement of Work in a cost effective manner. Vendors should provide a proposed solution that meets these requirements.

The RFB says within City of Albuquerque, yet your site list has locations OUTSIDE of the City of Albuquerque incorporated areas. Please clarify

The RFP is for all locations that are served by the Albuquerque Public Schools, regardless of whether they are located in the incorporated City of Albuquerque.

You reference BICSI and other related "standards" How are these applicable to an existing utility that has existing plant, or will build new plant that will in part be used by APS. ? The plant is not owned by APS.

The district expects vendors to document the technical approach they will be using to meet the industry standards for the solution being proposed. If the industry standards vary between different solutions (i.e. lit, dark, or self-provisioned) the vendor should apply the standards for the proposed medium. For existing facilities vendors should explain the industry standards used when the facilities were initially installed.

Where did you cut/paste Attachment D from? Many conflicts in this group of documents. Requirements of OSP does not meet existing practices. For example: there is a requirement to use a specific type of splice case. If this was a private construction just for APS that would make sense. But for IRU and Dark Fiber lease, this does not make sense. Cable / pull box grounding. National Electric code doesn't require grounding for dielectric cable (cable that has no electrical conductors in it). Placing tracer wire INSIDE the conduit is not advisable. A lightning strike can cause the tracer wire to damage the non-electrically conducting fiber cable. Good practice says to put the tracer wire OUTSIDE of the fiber carrying duct.

The district expects vendors to document the technical approach they will be using to meet the industry standards for the solution being proposed. If the industry standards vary between different solutions (i.e. lit, dark, or self-provisioned) the vendor should apply the standards for the proposed medium. For existing facilities vendors should explain the industry standards used when the facilities were initially installed.

You state that cable depth should be min 36" is that the case for existing plan? I'm quite sure that CenturyLink does have duct/fiber that is LESS than 36" depth.

As long as depths meet and or exceeds local / state codes and standards it will be acceptable to APS. However, the district prefers that any new fiber be at least 36 inches deep.

Aerial Plant. Pure and simple, you cannot dictate Aerial Plant standards. Those are outside of APS's legal authority. FCC, NESC, PNM and CABQ have absolute control over that.

Contractor should follow the standards set by the legal authority that controls the ROW access for aerial fiber.

Latency on dark fiber. This is not applicable for a metro network the size of ABQ. Latency is 100% controlled by the equipment the end customer places on the dark fiber.

Latency will only be measured on dark fiber if the dark fiber vendor owns and manages the equipment.

Will APS be releasing a BOM for the electronics for RFP 17-048 RR-RA?

APS will not be providing a Bill of Materials as it will be dependent on the solution proposed.

Susie R. Marmon ES address is listed as 6401 Iliff Rd NW – this appears to be an old address for that location. Could you please confirm that address should be changed to its new location located at 1800 72nd St NW, Albuquerque, NM 87120 (505) 831-5400

Correct should be 1800 72nd St NW, Albuquerque, NM 87120

Jimmy E. Carter MS address is listed as 8901 Bluewater NE – please confirm that address is actually 8901 Bluewater NW

Correct should be 8901 Bluewater NW

Roosevelt MS address is listed as 11799 State HSWay 14S – please confirm that address is actually 11799 State Highway 14 S

Correct 11799 State Highway 14 South

RFK Charter MS displays an address on the form as 1021 Isleta Blvd SW, Albuquerque, NM 87105. Checking the website, this site appears to be collocated to RFK Charter HS. Just for clarification, is this a MS or HS? Both?

This is the MS Located at the Old Armijo school at 1021 Isleta Blvd SW – the RFK HS is on Blake SW

College and Career HS – address for this site says: N/A (District owned fiber). Is the address? 525 Buena Vista Dr. SE, S Building, Albuquerque, NM 87106 (505) 224-4880. Should this site be included as part of the design for future reference?

This site was to be excluded as district already has a direct fiber connection. However, the school looks like it will be moving to an area around Avenida Cesar Chavez & Buena Vista Dr. SE located behind Isotopes park. The district would like to now consider that move and requests vendors to place fiber in that area to service the new location. District will provide an address as soon as it becomes available.

7125 Irving Blvd NW Albuquerque NM 87114- this resolves in Google as an empty lot. But the data may not be current in google maps. Could you check the address and advise as to what is at this location?

This address is for a new school being built: 7125 Irving Blvd NW Albuquerque NM 87114 (New Family School)

9601 Tierra Pintada Blvd NW Albuquerque NM 87120 - This resolves in Google as an empty lot. But the data may not be current in google maps. Could you check the address and advise as to what is at this location?

This address is for a new school being built: 9601 Tierra Pintada Blvd NW Albuquerque NM 87120 (New K-8 School)