



Procurement and Contracting Services

Request for Proposals to provide Arizona Public Media New Facility Broadcast Systems Integration

**Please mark all proposal submission
Files with the following information**

**Sealed RFP # L192320
Due on May 18, 2023 no later than 2:00 PM, MST**

TABLE OF CONTENTS
For
REQUEST FOR PROPOSALS NO. L192320

SECTION #	TITLE
1.0	<u>Statement of Work</u>
2.0	<u>Definitions</u>
3.0	<u>General Information and Instructions to Proposers</u>
4.0	<u>Agreement Terms and Conditions</u>
5.0	<u>Scope of Work, Specifications, Technical Requirements</u>
6.0	<u>Certifications and Forms</u> (Vendor to complete and return with proposal)



PROCUREMENT AND CONTRACTING SERVICES REQUEST FOR PROPOSALS, RFP #L192320

1.0 STATEMENT OF WORK

1.1 Summary. The Arizona Board of Regents (ABOR), on behalf of the University of Arizona, is soliciting proposals from interested vendors in media and entertainment industry. It is the intent of this proposal invitation to establish a broadcast systems integrator, "Contractor", to supply, install, commission and document for Arizona Public Media (AZPM) all technical systems for a new purpose-built radio and television facility. The systems encompassed by this document will include ones in support of Broadcast Operations, Studio and Production Operations, Enterprise IT Systems, Radio Studios and Production, Audio Visual and a Central Equipment Rack Room.

1.2 Background Arizona Public Media

1.2.1 Mission Statement Arizona Public Media (AZPM) is committed to being a trusted source of content and educational services that foster an informed, active citizenry, civil and thoughtful conversation, and community collaboration.

1.2.2 Vision Statement AZPM envisions a community in which ideas abound, knowledge is sought, learning never ends, and where innovative, adaptive audiences help solve community challenges to enrich life and expand human potential.

1.2.3 New Technical Facility To achieve the AZPM vision a new facility is being constructed south of the current University of Arizona location, at the UA Bridges Technology Park on the corner of Kino Parkway and Park. This will be a 45,000 square foot newly constructed building that will house AZPM staff, production studios, technical systems and a community engagement hub.

1.3 Coverage and Participation. The intended coverage of this RFP and any Agreement resulting from this solicitation shall be for the use of all Departments at the University of Arizona. The other State Universities, Arizona State University (ASU) and Northern Arizona University (NAU), along with Pima Community College (PCC) and any other educational institution or Governmental entity may access an Agreement resulting from this solicitation issued and administered by the University of Arizona.

2.0 DEFINITIONS

2.1 Agreement / Contract. All types of agreements entered into by the Arizona Board of Regents, regardless of what they may be called, for the procurement of materials, services or construction, or the disposal of materials. Meaning is interchangeable.

- 2.2 Customer.** Unless otherwise implied by the context of the specific provision within this RFP, "Customer" means a customer of the vendor, other than the University.
- 2.3 Contractor.** Same as Successful Vendor.
- 2.4 May, Should.** Indicates something that is not mandatory but permissible, recommended or desirable.
- 2.5 MST.** Mountain Standard Time. We **do not** observe Daylight Savings Time.
- 2.6 Must, Shall, Will.** Indicates a mandatory requirement. Failure to meet these mandatory requirements may result in the rejection of your proposal as non-responsive.
- 2.7 Proposal.** The entirety of the vendor's responses to each point of this RFP, including any and all supplemental offers or information not explicitly requested within this RFP.
- 2.8 Proprietary Information.** Information held by the owner that if released to the public or anyone outside the owner's organization, would be detrimental to its interests. It is an issue of fact rather than opinion. Pricing and/or revenues cannot be considered proprietary or confidential.
- 2.9 Provider.** Same as Vendor.
- 2.10 Request for Proposals (RFP).** A competitive process under which discussions and negotiations are allowed, it is not to be confused with a Request for Bid (RFB), in which goods or services are precisely specified and price is substantially the only competitive factor. This RFP provides the University the flexibility to negotiate to arrive at a mutually agreeable relationship. Price will be considered, but will not be the only factor of evaluation.
- 2.11 Respondent.** Same as Vendor.
- 2.12 Response.** Same as Proposal.
- 2.13 Responsible Vendor.** A person who has the capability, including necessary experience, to perform the contract requirements; who has the integrity and reliability which will ensure good faith performance and appropriate quality of the materials, services, construction or construction services, to be provided; and who is in compliance with any and all licensing requirements of the State of Arizona.
- 2.14 Responsive Vendor.** A person who submits a proposal which conforms in all material respects to the Request for Proposals.
- 2.15 Successful Vendor.** Any vendor selected by the University to receive a notice of award as a result of this RFP and to enter into a contract to provide the University with the products or services sought by this RFP
- 2.16 Supplemental Agreement.** Any supplemental terms and conditions agreed to by the parties in writing, which take precedence over all other documents governing the transaction.
- 2.17 Supplier.** Same as Vendor.

- 2.18 University.** Arizona Board of Regents (ABOR), a body corporate, for and on behalf of the University of Arizona.
- 2.19 Vendor.** For purposes of this RFP, "Vendor" means any entity responding to this RFP with the intention of winning the resulting award of contract, performing the work, and/or delivering the goods specified herein.
- 2.20 Vendor's Proposal.** Same as Proposal.
- 2.21 Vendor's Response.** Same as Proposal.

3.0 GENERAL INFORMATION AND INSTRUCTIONS TO PROPOSERS

- 3.1 Original RFP Document.** The Office of Procurement and Contracting Services shall retain the RFP, and all related terms and conditions, exhibits and other attachments, in original form in an archival copy. Any modification of these, in the vendor's submission, is grounds for immediate disqualification.
- 3.2 About the University.** For information about the University of Arizona, please visit the University's Internet web page at: www.arizona.edu/. For specific demographic information, visit <http://factbook.arizona.edu>.

University Purpose and Core Values. The University of Arizona's purpose is working together to expand human potential, explore new horizons and enrich life for all. To fulfill this purpose, the University has adopted Core Values that apply to all faculty, staff, and students, as well as to those doing business with the University. The Core Values are central to the culture of the University, and Vendors are encouraged to review and uphold the following:

- Integrity – Be honest respectful and just
- Compassion – Choose to Care
- Exploration – Be insatiably curious
- Adaptation – Stay open-minded and eager for what's next
- Inclusion – Harness the power of diversity
- Determination – Bear Down

For additional information regarding the University's Purpose and Core Values, please visit <https://www.arizona.edu/purpose-values>.

- 3.3 Schedule of Events.** The following is the tentative schedule that will apply to this RFP, but may change in accordance with the University's needs.

04/11/2023	Issuance of RFP
04/24/2023	Pre-Proposal Conference
05/02/2023	Technical Questions/Inquiries due no later than 12:00 PM, MST
05/18/2023	RFP is Due <u>May 18, 2023</u> , no later than 2:00 PM, MST
TBD	Vendor Presentations (optional)

- 3.4 Pre-Proposal Conference.** A mandatory pre-proposal conference will be held for vendors who intend to respond to this RFP. The purpose of the conference is to provide for questions and answers regarding terms, conditions, or specifications of the RFP.

Notification of attendance should be made to Celeste Kanzig at email: cdkanzig@arizona.edu

Date: 04/24/2023
Time: 10:00 AM, MST
Place: Join Zoom Meeting
<https://us02web.zoom.us/j/84336207756?pwd=cm1wOWY4RVJhOGJINUJaMmFMSDZPQT09>

Meeting ID: 843 3620 7756
Passcode: 121419
One tap mobile
+12532050468,,84336207756#,,, *121419# US
+12532158782,,84336207756#,,, *121419# US (Tacoma)

The University will not accept a proposal from any vendor who did not have a representative attend the mandatory pre-proposal conference.

The Buyer may choose to call for additional pre-proposal conference(s) if, in the sole judgment of the Buyer, there is a need for such conference(s) in order to promote competition.

- 3.5 Pre-Proposal Site Visit.** Not Applicable.

- 3.6 Accommodations for People with Disabilities.** If the vendor or any of the vendor's employees participating in this RFP need, or have questions about the University's accommodations for people with disabilities, please make arrangements with Celeste Kanzig at telephone # 520-621-3067 or email address cdkanzig@arizona.edu. Such requests should be made as early as possible to allow time to arrange the accommodation(s).

3.7 PROPOSAL PREPARATION INSTRUCTIONS

3.7.1 Vendor's Understanding of the RFP. In responding to this RFP, the vendor accepts the responsibility fully to understand the RFP in its entirety, and in detail, including making any inquiries to the University as necessary to gain such understanding. The University reserves the right to disqualify any vendor who demonstrates less than such understanding. Further, the University reserves the right to determine, at its sole discretion, whether the vendor has demonstrated such understanding. Related to this, the University's right extends to cancellation of award if award has been made. Such disqualification and/or cancellation shall be at no fault, cost, or liability whatsoever to the University.

3.7.2 University Provides Information in Good Faith without Liability. All information provided by the University in this RFP is offered in good faith. Individual items are subject to change at any time. The University makes no certification that any item is without error. The University is not responsible or liable for any use of the information, or for any claims attempted to be asserted therefrom.

3.7.3 Verbal versus Written Communication. Verbal communication shall not be effective unless formally confirmed in writing by the specified University procurement official in

charge of managing this RFP's process. In no case shall verbal communication override written communication.

3.7.4 Questions, Communications and Inquiries between the University and Vendors. **All Vendor inquiries, questions and requests for clarification related to this RFP are to be directed, in writing via email, ONLY to the Buyer listed below.** Once this RFP has been sent out, Vendors **are not to contact any University Department**, other than Procurement and Contracting Services, concerning this RFP, **or risk disqualification (see Section 3.7.1 above):**

Attn: Celeste Kanzig
Telephone No. 520-621-3067
Email Address: cdkanzig@arizona.edu

Applicable terms and conditions herein shall govern communications and inquiries between the University and vendors, as they relate to this RFP.

Informal communications shall include but are not limited to requests from/to vendors or vendors' representatives of any kind or capacity, to/from any University employee or representative of any kind or capacity, **with the exception of the Purchasing Department**, for information, comments, speculation, etc. Inquiries for clarifications and information that will not require addenda may be submitted verbally to the Buyer named above, at any time.

Formal communications shall include but are not limited to the following.

- Questions concerning this RFP must be submitted in writing, and be received **no later than May 2, 2023 at 12:00PM MST.**
- Errors and omissions in this RFP and enhancements. Vendors shall bring to the University's attention any discrepancies, errors, or omissions that may exist within this RFP. Vendors shall recommend to the University any enhancements in respect to this RFP, which might be in the University's best interests. These must be submitted in writing, and be received **no later than May 2, 2023 at 12:00PM MST.**
- Inquiries about technical interpretations must be submitted in writing, and be received **no later than May 2, 2023 at 12:00PM MST.**
- Inquiries for clarifications / information that will **not** require addenda may be submitted verbally to the Buyer named above at any time during this process.
- Verbal and/or written presentations and pre-award negotiations under this RFP.
- Addenda to this RFP.

Informal communications shall cease on the date of distribution of this RFP and formal communications shall commence. On the date that the University notifies responding vendors of this RFP's results and executes the resulting contract with the successful Vendor, informal communications may resume and formal communications may cease.

3.7.5 Addenda and the University's Response to Communications from Vendor. The University will make a good-faith effort to provide a written response to each question or request for clarification that requires addenda within five (5) University business days.

All addenda will be posted to our web site only:

[http://pacs.arizona.edu/RFP-BID Opportunities](http://pacs.arizona.edu/RFP-BID_Opportunities)

- **Vendors who want the addenda supplied to them in another form must notify Celeste Kanzig. Otherwise, it will be the vendor's responsibility to check the web site for any additional information and addenda concerning this RFP.**

The University will not respond to any questions / requests for clarification that require addenda, if received by the University after May 2, 2023 at 12:00PM MST.

3.7.6 Pricing and/or Revenue Proposal. Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. The University may presume and hold as the vendor's final offer all pricing and/or revenue offerings, whether stated as amounts or percentages, and/or whether or not offered on an all-or-none basis, if not specified by the vendor. The University may accept or reject in part or entirely the vendor's pricing and/or revenue offerings when such offerings are not on an all-or-none basis. Vendor's pricing and/or revenue proposals may not be modified after the RFP Due date and time unless University at its sole discretion decides that future negotiations will only enhance the Vendor's offer to University. Should University decide that such negotiations would not be in University's best interests, pricing and revenue offer by Vendor at Due date and time may be considered by University as the Vendor's best and final offer. Unless otherwise specifically proposed by the vendor, the University reserves the right to hold such pricing and/or revenue proposal as effective for the entire intended contract term. The University may prescribe the manner and method by which pricing and/or revenue offerings shall be communicated in the vendor's proposal. The University may reject any proposal in which the pricing and/or revenue offering does not conform to such prescribed manner and method. Vendors shall indicate pricing and/or revenue offers in the appropriate spaces and/or areas provided in this RFP. Vendors shall ensure that any departure from this condition results in an offer that is clearly cross-referenced to the applicable sections within this RFP. For any material departure from this condition, vendors shall provide clear and unambiguous explanations how the departure relates in detail to the applicable sections within this RFP. If the vendor responds with an "All-or-None" proposal, it shall be clearly and unambiguously marked as such.

3.7.7 Revisions to the RFP. The University may revise any part of this RFP for any reason by issuing addenda. **The University will communicate additional information and addenda to this RFP by posting them on our web site.**

[http://pacs.arizona.edu/RFP-BID Opportunities](http://pacs.arizona.edu/RFP-BID_Opportunities)

- **Vendors that want the revisions supplied to them in another way must notify the Buyer listed in this document of that request. Otherwise, it will be the vendor's responsibility to check the web site for any additional information and addenda concerning this RFP.**

Vendors are responsible for the information contained in such addenda, whether or not they acknowledge receipt. The University is under no obligation to communicate such addenda to vendors who notify the University that they will not be responding to this RFP. The University may determine whether an addendum will be considered as

part of this RFP and/or as part of any resultant contract. **The University shall reject vendors' responses to addenda if such responses are received after the RFP Due date and time.**

- 3.7.8 Attention to Terms and Conditions.** Vendors are cautioned to thoroughly understand and comply with all matters covered under the Terms and Conditions section of this RFP. The successful Vendor is expected to enter into a form of agreement approved by the Arizona Board of Regents. The University agreement terms and conditions included in this RFP are intended to be incorporated into this agreement. **Proposals that are contingent upon any changes to these terms and conditions may be deemed to be non-responsive and may be rejected.**
- 3.7.9 Required Signatures.** The University may reject any vendor's response if it is not signed as indicated and/or required by the areas, spaces, or forms provided within this RFP.
- 3.7.10 Proposal Organization.** Vendors shall present proposals in a format that can be readily incorporated into a contract. Vendors may present narrative proposals provided that such proposals follow the same outline and numbering scheme of this RFP, including full descriptive cross-references to all requirements listed in [Section 5.0](#). **Vendors should ensure that their proposals include page numbers and are organized in a manner that will facilitate the University's evaluation of them. The University reserves the right to reject without prior notice and without liability of any kind or amount any proposal that it deems overly complex, disorganized, or difficult to evaluate.** The University reserves the right to make such a decision without any input or communication from any other party. Vendors shall ensure that, at a minimum, their proposals contain the components set forth in the following list.
- Original required sections from this RFP
 - Any additional responses in corresponding sequence order
 - Any additional supporting data
- 3.7.11 Collusion Prohibited.** In connection with this RFP, vendor collusion with other vendors or employees thereof, or with any employee of the University, is prohibited and may result in vendor disqualification and/or cancellation of award. Any attempt by the vendor, whether successful or not, to subvert or skirt the principles of open and fair competition may result in vendor disqualification and/or cancellation of award. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.
- 3.7.12 Improper Business Relationships / Conflict of Interest Prohibited.** In connection with this RFP, each vendor shall ensure that no improper, unethical, or illegal relationships or conflict of interest exists between or among the vendor, the University, and any other party to this RFP. The University reserves the right to determine the materiality of such relationships, when discovered or disclosed, whether intended or not; and to decide whether or not vendor disqualification and/or cancellation of award shall result. Such disqualification and/or cancellation shall be at no fault or liability whatsoever to the University.
- 3.7.13 Corrections, Changes, and Providing Information on Forms within the RFP.** Vendors shall ensure that an authorized individual initials each correction using pen

and ink. Vendors shall use pen and ink or typewriter in providing information directly on pages, or copies thereof, contained within this RFP.

3.7.14 Proposal Bond. Not Applicable.

3.7.15 Performance and / or Payment Bonds. Not Applicable.

3.7.16 Anti-Kickback. In compliance with FAR 52.203-7, the University has in place and follows procedures designed to prevent and detect violations of the Anti-Kickback Act of 1986 in its operations and direct business relationships.

3.8 PROPOSAL SUBMISSION AND SUBSEQUENT ACTION

Proposals must be received by the date / time and uploaded to the University's secure box no later than May 18, 2023 at 2:00 PM MST.

Vendors, please be advised that it is *your sole responsibility* to ensure that your proposal is received as described in the paragraph above. The University shall not be responsible for any delays that may occur.

Proposals must be **uploaded** to:

Box Secure Upload:

In response to the current COVID-19 Pandemic, proposal responses will be accepted until the due date and time at:

<https://arizona.app.box.com/f/7b54346cea4f4b3ea975566fd1493e8f>

Please title your response in the upload folder as:

RFP#_VendorName_Response

****Vendor please note: no more than two files should be uploaded, you may include a redacted copy if necessary per 3.8.3 which counts as your 2nd file.****

no later than May 18, 2023 at 2:00PM MST. The University shall, at the specified Due date and time, accept all proposals that are otherwise in order. The University will allow interested parties to be present via zoom for purposes of identifying which vendors have responded, if requested. The University will make no immediate decision at such time, and **there will be no disclosure of any information contained in any proposal until after formal notice of award and execution of any contract resulting from this RFP.** When multiple solicitations have been scheduled to open at the same date and time, the University will open solicitations that have interested individuals present in sequential order by solicitation number. **The University will hold unopened any proposals received after the Due date and time, and will not consider such proposals.** The University reserves the right to retain or dispose of such proposals at its discretion; however, the University may return such proposals to their related vendors, but only at such vendor's request and at no cost or expense whatsoever to the University.

If the University determines that due to an insufficient number of proposals received, it would be in the University's best interest, the University may extend the Due date in order to determine why other vendors did not respond and to encourage other vendors to respond.

- 3.8.1 Proposal Costs.** The University is not liable in any manner or to any extent for any cost or expense incurred by any vendor in the preparation, submission, presentation, or any other action connected with proposing or otherwise responding to this RFP. Such exemption from liability applies whether such costs are incurred directly by the vendor or indirectly through the vendor's agents, employees, assigns or others, whether related or not to the vendor.
- 3.8.2 Withdrawal of RFP.** Vendors may withdraw their proposals any time prior to the RFP Due date and time. Vendors may request to withdraw their proposals after the RFP Due date and any time prior to selection and notice of award. The University shall have sole authority to grant or deny such a request. In the event the University grants such a request, it may withhold issuing future RFP's to such vendors.
- 3.8.3 University's Right to Use Vendor's Ideas / Proprietary Information.** If the vendor needs to submit proprietary information with the proposal, the vendor **shall ensure that it is enclosed in a separate file from the proposal and that it is clearly designated and conspicuously labeled as such.**

The University shall have the right to use any ideas that are contained in any proposal received in response to this RFP, along with any adaptation of such ideas. Selection or rejection of the proposal shall not affect the University's right of use. Provided, however, that the University will, in good faith, honor any vendor information that is **enclosed in a separate file from the proposal and clearly designated and conspicuously labeled as proprietary, and the University concurs that the information is proprietary. The file must also contain the reason(s) why the enclosed material is to be considered proprietary.** Trade secrets or other proprietary data contained in the proposal documents shall be maintained as confidential in accordance with procedures promulgated by the Procurement Officer and subject to limitations in Arizona or Federal law. **Pricing information cannot be considered proprietary or confidential.** The University shall not be liable in any manner or in any amount for disclosing proprietary information if such information is not clearly so designated and conspicuously so labeled. The University shall likewise not be liable if it did not know or could not have reasonably known that such information was proprietary. **At no time will the entire proposal be considered proprietary and be kept confidential.**

3.9 EVALUATION PROCESS AND AWARD

- 3.9.1 Contractual Intent / Right to Terminate and Recommence RFP Process.** The University intends to contract with one or more vendors whose proposal(s) are considered to be in the best interests of the University. However, the University may terminate this RFP process at any time up to notice of award, without prior notice, and without liability of any kind or amount. Further, the University reserves the right to commence one or more subsequent RFP processes seeking the same or similar products or services covered hereunder.
- 3.9.2 Effective Period of Proposals.** Under this RFP, the University shall hold that vendors' responses to this RFP shall remain in effect for a period of ninety (90) days following the Due date, in order to allow time for evaluation, approval, and award of the contract. Any vendor who does not agree to this condition shall specifically communicate in its proposal such disagreement to the University, along with any proposed alternatives. The University may accept or reject such proposed alternatives without further notification or explanation.

- 3.9.3 Proposal Acceptance/Rejection.** The University reserves the right to reject any or all proposals. Such rejection may be without prior notice and shall be without any liability of any kind or amount to the University. The University shall not accept any proposal that the University deems not to be in its best interests. The University shall reject proposals submitted after the Due date and time.
- 3.9.4 Errors and Omissions in Vendors Proposals.** The University may accept or reject any vendor's proposal, in part or in its entirety, if such proposal contains errors, omissions, or other problematic information. The University may decide upon the materiality of such errors, omissions, or other problematic information.
- 3.9.5 Determination of and Information Concerning Vendor's Qualifications.** The University reserves the right to determine whether a vendor has the ability, capacity, and resources necessary to perform in full any contract resulting from this RFP. The University may request from vendors information it deems necessary to evaluate such vendors' qualifications and capacities to deliver the products and/or services sought hereunder. The University may reject any vendor's proposal for which such information has been requested but which the vendor has not provided. Such information may include but is not limited to:
- Financial resources
 - Personnel resources
 - Physical resources
 - Internal financial, operating, quality assurance, and other similar controls and policies
 - Resumes of key executives, officers, and other personnel pertinent to the requirements of the RFP
 - Customer references
 - Disclosures of complaints or pending actions, legal or otherwise, against the vendor
- 3.9.6 Apparently Conflicting Information Obtained by Vendor.** The University is under no obligation whatsoever to honor or observe any information that may apparently conflict with any provision herein, regardless of whether such information is obtained from any office, agent, or employee of the University. Such information shall not affect the vendor's risks or obligations under a contract resulting from this RFP.
- 3.9.7 Rejection of Vendor Counter-offers, Stipulations and Other Exceptions.** Any vendor exception, stipulation, counter-offer, requirement, and/or other alternative term or condition shall be considered rejected unless specifically accepted in writing by the University and thereafter incorporated into any contract resulting from this RFP.
- 3.9.8 Method of Award.** Each response to this RFP will be reviewed for its overall competence, compliance, format, and organization. Proposals which the University deems overly complex, disorganized, or difficult to evaluate may be rejected in accordance with [Section 3.7.10](#) of this RFP. The award shall be made to the responsive and responsible vendor whose proposal is determined to be the most advantageous to the University of Arizona, taking into consideration the following evaluation criteria listed in the relative descending order of importance. Pricing must be a criterion. However, the University is under no obligation whatsoever to select, as most responsive the proposal that demonstrates the lowest pricing.

Evaluation Criteria

1. Ability to meet specifications as outlined in section 5.0
2. Functionality and overall design concept to meet AZPM needs
3. Overall Pricing
4. Support and training
5. Overall value per section 5.14, 5.15, 5.16
6. Vendor experience per 5.17

The contract will consist of the University's RFP, the proposal with any and all revisions, award letter, and/or purchase order, and/or the signed agreement between the parties, as stated in that agreement.

- 3.9.9 Selection, Negotiation, Additional Information.** Although the University reserves the right to negotiate with any vendor or vendors to arrive at its final decision and/or to request additional information or clarification on any matter included in the proposal, it also reserves the right to select the most responsive and responsible vendor or vendors without further discussion, negotiation, or prior notice. The University may presume that *any proposal is a best-and-final offer*.
- 3.9.10 Pre-Award Presentations.** The University reserves the right to require presentations from the highest ranked vendors, in which they may be asked to provide information in addition to that provided in their proposals.
- 3.9.11 Pre-Award Negotiations.** The University reserves the right to negotiate prior to award with the highest ranked vendors for purposes of addressing the matters set forth in the following list, which may not be exhaustive.
- Resolving minor differences and scrivener's errors
 - Clarifying necessary details and responsibilities
 - Emphasizing important issues and points
 - Receiving assurances from vendors
 - Obtaining the lowest and best pricing and/or revenue agreement
- 3.9.12 Notification of Non-Selection.** The University reserves the right not to notify vendors whose RFP responses are not selected for further consideration or notice of award. If the University decides to notify such vendors in writing, it will send the notifications to the address indicated in each such vendor's proposal. Once the award has been finalized, a notice of award may be posted on our [website](#).
- 3.9.13 Vendor's Need to Use Proprietary Rights of the University.** All information proprietary to the University and disclosed by the University to any vendor shall be held in confidence by the vendor and shall be used only for purposes of the vendor's performance under any contract resulting from this RFP.
- 3.9.14 Public Record.** After the award and execution of a contract resulting from this RFP, vendors' proposals become public record and are available for review during the University's regular office hours. The University will, in good faith and to the extent allowed by law, honor any vendor information that is clearly designated and conspicuously labeled as proprietary, and the University agrees that the information is proprietary. If the vendor needs to submit proprietary information with the proposal, the vendor **shall ensure that it is enclosed in a separate file from the proposal**

and that it is clearly designated and conspicuously labeled as such. The file must also contain the reason(s) why the enclosed material is to be considered proprietary. At no time shall the entire proposal be considered proprietary and be kept confidential. The University shall not be liable in any manner or in any amount for disclosing proprietary information if such information is not clearly so designated and conspicuously so labeled. The University shall likewise not be liable if it did not know or could not have reasonably known that such information was proprietary. **Pricing information cannot be considered proprietary or confidential.**

3.9.15 Certification. By signature on the "Proposal Certification" form included herein, the Vendor certifies that the submission of the proposal did not involve collusion or other anti-competitive practices. The Vendor has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted proposal. In addition, Vendor certifies whether or not any employee of the University has, or has a relative who has, a substantial interest in any Agreement that may result from this RFP. Vendor also certifies their status with regard to debarment, or suspension by any Federal entity.

Failure to provide a valid signature affirming the stipulations required by this clause shall result in the rejection of the submitted proposal and, if applicable, any resulting Agreement. Signing the certification with a false statement shall void the proposal and, if applicable, any resulting Agreement. Any resulting Agreement may be subject to legal remedies provided by law. Vendor agrees to promote and offer to the University only those services and/or materials as stated in and allowed for under resulting Agreement(s).

4.0 AGREEMENT TERMS AND CONDITIONS

The following are the Terms and Conditions that will become part of any Agreement consummated between the University and the Successful Vendor. **In the event of a conflict between any provisions contained in any of the documents governing this transaction, the following shall be the order of precedence: Supplemental Agreement; Request for Proposals; Proposal.**

4.1 Actions of Successful Vendor. The University is under no obligation whatsoever to be bound by the actions of any Successful Vendor with respect to third parties. The Successful Vendor is not a division or agent of the University.

4.2 Advertising. The Successful Vendor shall not advertise or publish information concerning the Agreement without prior written consent of the University. The University shall not unreasonably withhold permission.

4.3 Americans with Disabilities Act and Rehabilitation Act. The Successful Vendor will comply with all applicable provisions of the Americans with Disabilities Act, the Rehabilitation Act, and all applicable federal regulations.

All electronic and information technology and products and services to be used by University faculty/staff, students, program participants, or other University constituencies must be compliant with the Americans with Disabilities Act as amended and the Rehabilitation Act. Compliance means that a disabled person can acquire the same information, engage in the same interactions, and enjoy the same services as a nondisabled person, in an equally effective and integrated manner, with substantially equivalent ease of use.

4.3.1 Electronic and Information Technology. Any acquisition considered electronic and information technology (EIT) as defined by the Access Board at 36 CFR 1194.4 and in the FAR at 2.101 must comply with Section 508 (36 CFR Part 1194) and, for web-based applications, WCAG 2.0, Level AA Guidelines. In addition, the submission of a completed Voluntary Product Accessibility Template (VPAT) is required so the University of Arizona may ascertain conformance. Proposals or bids without a completed VPAT may be disqualified from competition. The UA Guide to the VPAT and the templates themselves are available to assist vendors in this process. See information at <http://itaccessibility.arizona.edu/guidelines/purchasing/vpat>.

EIT is information technology (IT) and any equipment or interconnected system or subsystem of equipment that is used in the creation, conversion, or duplication of data or information. EIT includes, but is not limited to:

- telecommunication products, such as telephones;
- information kiosks and transaction machines;
- World Wide Web sites;
- software;
- multimedia (including videotapes); and
- office equipment, such as copiers and fax machines.

The University of Arizona reserves the right to perform real-world testing of a product or service to validate vendor claims regarding Section 508 conformance. To facilitate testing, the vendor will, upon request, provide the University with access to the product being considered for purchase for a period of at least 30 calendar days.

4.3.2 Services and Products. An accessible *service or product* is one that can be used by as many people as possible, taking into account their physical, cognitive, emotional, and sensory differences.

Services provided include, but are not limited to:

- education and training;
- cultural and athletic events;
- vehicle rentals
- event space and lodging; and
- parking and transportation.

Products include, but are not limited to:

- office equipment;
- office and classroom furniture; and
- kiosks

4.4 Conflict of Interest. Pursuant to the provisions of Arizona Revised Statute § 38-511, the Arizona Board of Regents may, within three years after its execution, cancel the Agreement without penalty or further obligation if any person significantly involved in negotiating, drafting, securing or obtaining the Agreement for or on behalf of the Arizona Board of Regents becomes an employee in any capacity of any other party or a consultant to any other party with reference to the subject matter of the Agreement while the Agreement or any extension thereof is in effect.

- 4.5 Drug Free Workplace.** The Successful Vendor agrees that in the performance of the Agreement, neither the Successful Vendor nor any employee of the Successful Vendor shall engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity covered by the Agreement. The University reserves the right to request a copy of the Successful Vendor's Drug Free Workplace Policy. The Successful Vendor further agrees to insert a provision similar to this statement in all subcontracts for services required.
- 4.6 Equal Opportunity.** The provisions of Section 202 of Executive Order 11246.41 C.F.R. Sec. 60-1.4.41 C.F.R. Sec. 60-250.4 and 41 C.F.R. Sec. 60-741.4 are incorporated herein by reference and shall be applicable to the Agreement unless the Agreement is exempted under the rules, regulations or orders of the U.S. Secretary of Labor.
- 4.7 Federal, State, and Local Taxes, Licenses and Permits.** Successful Vendor is solely responsible for complying with all laws, ordinances, and regulations on taxes, licenses and permits, as they may apply to any matter under this RFP. The Successful Vendor must demonstrate that they are duly licensed by whatever regulatory body may so require during the performance of the Agreement. Prior to the commencement of Agreement, the Successful Vendor shall be prepared to provide evidence of such licensing as may be requested by the University. Successful Vendor shall, at no expense to the University, procure and keep in force during the entire period of the Agreement all such permits and licenses.
- 4.8 Inspection and Audit.** Pursuant to the provisions of Arizona Revised Statute § 35-214, all books, accounts, reports, files and other records relating to the Agreement shall be subject at all reasonable times to inspection and audit by the Arizona Board of Regents, The University of Arizona or the Auditor General of the State of Arizona, or their agents for five (5) years after completion or termination of the Agreement.
- 4.9 Liens.** Each Successful Vendor shall keep the University free and clear from all liens asserted by any person or entity for any reason arising out of the furnishing of services or materials by or to the Successful Vendor.
- 4.10 Modifications.** The Agreement can be modified or rescinded only by a writing signed by both parties or their duly authorized agents.
- 4.11 Non-Discrimination.** The parties shall comply with all applicable state and federal statutes and regulations governing equal employment opportunity, non-discrimination, and immigration.
- 4.12 Sales and Use Tax.** The Successful Vendor agrees to comply with and to require all of his subcontractors to comply with all the provisions of applicable law. The Successful Vendor further agrees to indemnify and hold harmless the University from any and all claims and demands made against it by virtue of the failure of the Successful Vendor or any subcontractors to comply with the provisions of any and all said laws. The University is not exempt from state sales and use tax, except for equipment purchased for research or development. Any equipment ordered as tax exempt shall be invoiced separately from taxable systems, even if purchased on the same purchase order as issued by the University.
- 4.13 Prohibited Harassment.** Federal law and the policies of the University prohibit sexual harassment of University employees or students. Sexual harassment includes any unwelcome sexual advance toward a University employee or student, any request for a sexual favor from a University employee or student, or any other verbal or physical conduct of a sexual nature

that is so pervasive as to create a hostile or offensive working environment for University employees, or a hostile or offensive academic environment for University students. University vendors, subcontractors and suppliers for this project are required to exercise control over their employees so as to prohibit acts of sexual harassment of University employees and students. The employer of any person who the University, in its reasonable judgment, determines has committed an act of sexual harassment agrees as a term and condition of the Agreement to cause such person to be removed from the project site and from University premises and to take such other action as may be reasonably necessary to cause the sexual harassment to cease.

- 4.14 Small Business Utilization Program.** The University is committed to its [Small Business Utilization Program](#) and to the development of Small Business. If subcontracting is necessary, the Successful Vendor will make every effort to use Small Businesses in the performance of the Agreement.
- 4.15 Smoking and Tobacco Policy.** This policy applies to the University of Arizona main campus in Tucson, the Arizona Health Sciences Center, the Phoenix Biomedical Center, UA South and all University vehicles. This policy applies to University students, faculty, employees, contractors, volunteers, and visitors on its campuses and in its vehicles. To view the complete policy, click on <https://policy.arizona.edu/ethics-and-conduct/smoking-and-tobacco-policy>. The Successful Vendor is expected to respect this tobacco free policy and fully comply with it.
- 4.16 Export Control.** Each party shall comply with all applicable export control laws and economic sanctions programs. Applicable export control or economic sanctions programs may include U.S. export control laws such as the Export Administration Regulations and the International Traffic in Arms Regulations, and U.S. economic sanctions programs that are or may be maintained by the U.S. Government. The parties will comply with U.S. export control and U.S. economic sanctions laws with respect to the export (including a deemed export) or re-export of U.S. origin goods, software, services and/or technical data, or the direct product thereof.
- 4.17 No Boycott of Goods or Services from Israel.** If the Goods/Services provided under this Agreement include the acquisition of services, supplies, information technology or construction with a value of at least \$100,000 and Supplier is engaged in for-profit activity and has 10 or more full-time employees, then, to the extent required by ARS § 35-393.01, Supplier certifies it is not currently engaged in, and during the term of this Agreement will not engage in, a boycott of goods or services from Israel.
- 4.18 Safety Standards.** To the extent applicable to the services to be performed under this Agreement, Contractor represents and warrants that all articles and services furnished under this Agreement meet or exceed the safety standards established and promulgated under the Federal Occupational Safety and Health Law (Public Law 91-596) and its regulations, in effect or proposed as the date of this Agreement, which shall include the following guidance provided by OSHA, available at the following link <https://www.osha.gov/coronavirus/safework>. In addition, Contractor, Contractor employees, and/or subcontractors who will be performing work in University of Arizona locations, indoor or outdoor, must review and abide by the mask requirements listed at: <https://covid19.arizona.edu/face-coverings>.
- 4.19 Arbitration.** The parties agree to arbitrate disputes filed in Arizona Superior Court that are subject to mandatory arbitration pursuant to ARS § 12-133.
- 4.20 Travel.** If authorized as part of any resulting contract, all reimbursable travel expenses must be authorized in writing by the University in advance of the planned travel and must be

consistent with University Financial Policy 9.12 Independent Contractors, <https://policy.fso.arizona.edu/fsm/900/912> items 33-42. Each request for reimbursement shall be itemized and accompanied by copies of original receipts. If applicable, reimbursements for airfare shall be for standard airline coach travel only. If applicable, reimbursement for auto travel and per diem shall be made at the rate permitted for State of Arizona employees. Note that the purchase of alcohol shall not be permitted as a reimbursable expense under this Contract. Vendor will submit all receipts and any required backup documentation to the University within 90 days after the applicable expenses were incurred. The University will not be required to reimburse Vendor for any expenses, invoices, or receipts for expenses received after that time.

- 4.21 Administrative (Legal) Remedies.** The Arizona Board of Regents has promulgated [Administrative \(Legal\) Remedies](#) for alleged breaches or disputes arising from the Agreement. These remedies are exclusive and must be exhausted before the filing of any legal action.
- 4.22 Assignment-Delegation.** No right or interest in the Agreement shall be assigned or delegation of any obligation made by Successful Vendor without the written permission of the University. Any attempted assignment or delegation by Successful Vendor shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.
- 4.23 Assignment of Anti-Trust Overcharge Claims.** The parties recognize that in actual economic practice overcharges resulting from anti-trust violations are in fact borne by the ultimate purchaser; therefore, Successful Vendor hereby assigns to the University any and all claims for such overcharges.
- 4.24 Date for Reckoning Prompt-Payment Discount.** For purposes of determining whether a prompt-payment discount, if applicable, may be taken by the University, the starting date of such reckoning period shall be the later of the date of a properly executed invoice or the date of completion of service and/or delivery of product.
- 4.25 Force Majeure.** Neither party shall be held responsible for any losses resulting if the fulfillment of any terms or provisions of the Agreement are delayed or prevented by any cause not within the control of the party whose performance is interfered with, and which by the exercise of reasonable diligence, said party is unable to prevent. Neither the Supplier / Contractor nor the University shall be liable for failure to perform if such failure is caused by or due to acts or regulations of public authorities, labor difficulties, civil tumult, strike, epidemic, pandemic, or any cause beyond the control of Supplier / Contractor or the University. Neither party shall be under any further obligation to the other.
- 4.26 Indemnification / Hold Harmless.** The Successful Vendor shall indemnify, defend, and hold harmless to the fullest extent allowed by law the State of Arizona, the Arizona Board of Regents and the University, its officers, agents, and employees ("Indemnitees") from any and all claims, demands, suits, actions, proceedings, loss, cost, and damages of every kind and description, including attorneys' fees and/or litigation expenses, which may be brought or made against or incurred on account of breach, or loss of or damage to any property, or for injuries to or death of any person, or financial loss incurred by Indemnitees, caused by, arising out of, or contributed to, in whole or in part, by reasons of any act, omission, professional error, fault, mistake, or negligence of Successful Vendor, its employees, agents, representatives, or subcontractors, their employees, agents, or representatives in connection with or incident to the performance of the Agreement, or arising out of Workers Compensation claims, Unemployment Compensation claims, or Unemployment Disability Compensation claims of employees of Successful Vendor and/or its subcontractors of claims under similar such laws

and obligations. Successful Vendor's obligation under this provision shall not extend to any liability caused by the sole negligence of the State of Arizona, Arizona Board of Regents, University or its officers, agents, and employees. Such indemnification shall specifically include infringement claims made against any and all intellectual property supplied by Successful Vendor and third party infringement under the Agreement.

4.27 Insurance Requirements. Without limiting any liabilities or any other obligations of Successful Vendor, the Successful Vendor shall provide and maintain the minimum insurance coverage listed below unless otherwise agreed to in writing. Coverage shall be provided with forms and insurers acceptable to the University until all obligations under the Agreement are satisfied.

- Commercial General Liability (CGL) insurance with minimum limits of ONE MILLION DOLLARS (\$1,000,000) each occurrence and TWO MILLION DOLLARS (\$2,000,000) general aggregate.
- Commercial Automobile Liability insurance with a minimum combined single limit of ONE MILLION DOLLARS (\$1,000,000) each occurrence.

The insurance policies required in the two statements above shall be endorsed to name the State of Arizona, Arizona Board of Regents on behalf of the University of Arizona as additional insured and shall stipulate that the insurance afforded the Successful Vendor shall be primary insurance and that any insurance carried by the State of Arizona, the Arizona Board of Regents and the University of Arizona, their agents, officials or employees shall be excess and not contributory insurance to that provided by Successful Vendor.

- If applicable, Worker's Compensation insurance in accordance with applicable Arizona Statutes, for any employees engaged in the performance of Agreement; and
- Employer's Liability insurance with a minimum limit of FIVE HUNDRED THOUSAND DOLLARS (\$500,000).

A certificate of insurance acceptable to the University shall be furnished to the University prior to the commencement of Agreement as evidence that policies providing the required coverage, conditions and limits are in full force and effect.

4.28 Additional Insurance Requirements (Consultants, Lawyers, Architects and Engineers Agreements). Not Applicable.

4.29 Additional Insurance Requirements (Medical Services Agreement). Not Applicable.

4.30 Additional Insurance Requirements (Handling Hazardous Wastes). Not Applicable.

4.31 Intellectual Property. It is understood and agreed that ownership of intellectual property developed as a result of fulfilling the requirements of this Request for Proposals belongs solely and exclusively to the Arizona Board of Regents on behalf of the University of Arizona. Documents/drawings used in this proposal belong to the Arizona Board of Regents on behalf of the University of Arizona and/or are being used with permission. Intellectual property as used herein, means all forms of legally protectable intellectual property, including copyrights, trademarks, inventions, patent applications, patents and mask works, drawings and/or blueprints. It is also understood and agreed that anything created as a result of an award of this proposal is considered a work for hire under the U.S. copyright laws and as such, the Arizona Board of Regents on behalf of the University of Arizona will own the copyright.

- 4.32 Labor Disputes.** Successful Vendor shall give prompt notice to the University of any actual or potential labor dispute which delays or may delay performance of the Agreement.
- 4.33 Laws and Regulations.** Successful Vendors are solely responsible for keeping themselves fully informed of and faithfully observing all laws, ordinances, and regulations affecting the rights of their employees, and shall protect and indemnify the University, its officers and agents against any claims of liability arising from or based on any violation thereof.
- 4.34 No Waiver of Right by the University.** No waiver by University of any breach of the provisions of the Agreement by the Successful Vendor shall in any way be construed to be a waiver of any future breach or bar the University's right to insist on strict performance of the provisions of the Agreement
- 4.35 Parking.** The Successful Vendor shall obtain all parking permits and/or decals that may be required while performing project work on University premises. The Successful Vendor should contact [Parking and Transportation Services](#) located at 1117 E. Sixth St., Tucson AZ 85721-0181.
- 4.36 Performance and / or Payment Bonds.** Not Applicable.
- 4.37 Payment Terms.** Payments by the University shall be subject to the provision of Title 35 of Arizona Revised Statutes relating to time and manner of submission of claims. The University's obligation is payable only and solely from funds appropriated for the purpose of the Agreement. Unless otherwise stated herein, the payment terms for the Agreement are Net 30 days
- 4.38 Price Adjustment for Multi-Year Contracts.** Price changes will normally only be considered at the end of one Agreement period and the beginning of another. Price change requests shall be in writing, submitted at least sixty (60) days prior to the end of the current Agreement period, and shall be supported by written evidence of increased costs to the Successful Vendor. The University will not approve unsupported price increases that will merely increase the gross profitability of the Successful Vendor at the expense of the University. Price change requests shall be a factor in the Agreement extension review process. The University shall, in its sole opinion, determine whether the requested price increase or an alternate option is in the best interest of the University.
- 4.39 Prior Course of Dealings.** No trade usage, prior course of dealing, or course of performance under other agreements shall be a part of any agreement resulting from this RFP; nor shall such trade usage, prior course of dealing, or course of performance be used in the interpretation or construction of such resulting agreement.
- 4.40 Referencing of Orders.** For each order issued against an agreement resulting hereunder, the University intends in good faith to reference this RFP for pricing, terms and conditions, delivery location, and other particulars. However, in the event the University fails to do so, the University's right to such terms, conditions, and particulars shall not be affected, and no liability of any kind or amount shall accrue to the University.
- 4.41 Remedies and Applicable Law.** The Agreement shall be governed by and construed in accordance with the laws of the State of Arizona. University and Successful Vendor shall have all remedies afforded each by said law. The venue in any action or litigation commenced to enforce the Agreement shall be instituted in the appropriate courts in Arizona.

4.42 Right of Assurance. Whenever one party to the Agreement in good faith has reason to question the other party's intent to perform, he may demand that the other party give a written assurance of their intent to perform. In the event that a demand is made and no written assurance is given within ten calendar (10) days, the demanding party may treat this failure as an anticipatory repudiation of the Agreement.

4.43 Right of Offset. The University shall be entitled to offset against any sums due the Successful Vendor, any expenses or costs incurred by the University, or damages assessed by the University concerning the Successful Vendor's non-conforming performance or failure to perform the Agreement, or any other debt owing the University, including expenses, costs and damages described in the termination provisions contained herein.

4.44 Termination

4.44.1 Convenience. The University reserves the right to terminate the Agreement in whole or in part at any time when in the best interests of the University without penalty or recourse. Upon receipt of the written notice, the Successful Vendor shall immediately stop all work as directed in the notice, notify all subcontractors of the effective date of the termination and minimize all further costs to the University. In the event of termination under this provision, all documents, data and reports prepared by the Successful Vendor under the Agreement shall become the property of and delivered to the University. The Successful Vendor shall be entitled to receive just and equitable compensation for work in progress, work completed and materials accepted before the effective date of termination. Such compensation shall be the Successful Vendor's sole remedy against the University in the event of termination under this provision.

4.44.2 Default. The University reserves the right to terminate the Agreement in whole or in part due to the failure of the Successful Vendor to comply with any term or condition of the Agreement, to acquire and maintain all required insurance policies, bonds, licenses and permits, or to make satisfactory progress in performing the Agreement. The University shall provide written notice of the termination and the reasons for it to the Successful Vendor. Upon termination under this provision, all goods, materials, documents, data and reports prepared by the Successful Vendor under the Agreement shall become the property of and be delivered to the University on demand. The University may, upon termination of the Agreement, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under the Agreement. The Successful Vendor shall be liable to the University for any Excess Costs incurred by the University in re-procuring the materials or services.

4.44.3 Gratuities. The University may, by written notice to the Successful Vendor, cancel the Agreement if it is discovered by the University that gratuities, in the form of entertainment, gifts or other, were offered or given by the Successful Vendor, or any agent or representative of the Successful Vendor, to any officer or employee of the University with a view toward securing an Agreement or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such Agreement. In the event the Agreement is canceled by the University pursuant to this provision, University shall be entitled, in addition to any other rights and remedies, to recover or withhold the amount of the cost incurred by Successful Vendor in providing such gratuities.

4.44.4 Insolvency. The University shall have the right to terminate the Agreement at any time in the event Successful Vendor files a petition in bankruptcy; or is adjudicated

bankrupt; or if a petition in bankruptcy is filed against Successful Vendor and not discharged within thirty (30) days; or if Successful Vendor becomes insolvent or makes an assignment for the benefit of its creditors or an arrangement pursuant to any bankruptcy law; or if a receiver is appointed for Successful Vendor or its business.

4.44.5 Lack of Funding. The Agreement may be canceled without further obligation on the part of the Arizona Board of Regents and the University of Arizona in the event that sufficient appropriated funding is unavailable to assure full performance of the terms. The Successful Vendor shall be notified in writing of such non-appropriation as soon as reasonably possible. No penalty shall accrue to the Board or the University in the event this cancellation provision is exercised. This cancellation provision shall not be construed so as to permit the University to terminate the Agreement in order to acquire similar equipment, material, supplies or services from another party.

4.44.6 Stop Work Order. The University may at any time, by written order to the Successful Vendor, require the Successful Vendor to stop all or any part of the work called for by the Agreement for a period of ninety (90) days after the order is delivered to the Successful Vendor, and for any further period to which the parties may agree. The order shall be specifically identified as a Stop Work Order issued under this provision. Upon receipt of the order, the Successful Vendor shall immediately comply with its terms and take all reasonable steps to minimize the incidence of costs allocable to the work covered by the order during the period of work stoppage. If a Stop Work Order issued under this provision is canceled or the period of the order or any extension expires, the Successful Vendor shall resume work. The University shall make an equitable adjustment in the delivery schedule or Agreement price, or both, and the Agreement shall be amended in writing accordingly.

4.44.7 Suspension or Debarment. The University may by written notice to the Successful Vendor immediately terminate the Agreement if the University determines that the Successful Vendor has been debarred, suspended or otherwise lawfully prohibited from participating in any public procurement activity, including but not limited to, being disapproved as a subcontractor Vendor of any public procurement unit or other governmental body.

4.45 Continuation of Performance through Termination. The Successful Vendor shall continue to perform, in accordance with the requirements of Agreement, up to the date of termination, as directed in the termination notice.

4.46 Confidentiality. The parties shall comply with 20 USC Section 1232(g), the Buckley Amendment to the Family Educational Right and Privacy Act of 1974. Therefore, Vendor shall not be entitled to receive Employee or Student information directly from University, other than public information available in University directories which is not protected by federal or state privacy or confidentiality statutes or regulations. Vendor may solicit Employee and Student information directly from Employees and Students subject to prior disclosures by Vendor of all intended uses of such information. Regardless of the Employee or Student personal information, even if such information is publicly available via directories, Vendor shall under no circumstances sell, duplicate, market, or give to any person or persons, entities or other companies a list or other personal information of any or all Employees or Students. All identities and personal information Employees and Students shall remain confidential. And disclosure by Vendor occurring without the express prior written consent of the Employee or Student shall result in the immediate termination of this agreement.

4.47 Data Use, Ownership, and Privacy. The terms of this section apply if Supplier receives, has access to, stores, or analyzes any UA Data (as defined below). As between the parties, UA will own, or retain all of its rights in, all data and information that UA provides to Supplier, as well as all data and information managed by Supplier on behalf of UA, including all output, reports, analyses, and other materials relating to, derived from, or generated pursuant to the Agreement, even if generated by Supplier, as well as all data obtained or extracted through UA's or Supplier's use of such data or information (collectively, UA Data). UA Data also includes all data and information provided directly to Supplier by UA students and employees, and includes personal data, metadata, and user content.

UA Data will be UA's Intellectual Property and Supplier will treat it as UA Confidential Information (as defined below). Supplier will not use, access, disclose, or license, or provide to third parties, any UA Data, except: (i) to fulfill Supplier's obligations to UA hereunder; or (ii) as authorized in writing by UA. Without limitation, Supplier will not use any UA Data, whether or not aggregated or de-identified, for product development, marketing, profiling, benchmarking, or product demonstrations, without, in each case, UA's prior written consent. Supplier will not, directly or indirectly: (x) attempt to re-identify or de-aggregate de-identified or aggregated information; or (y) transfer de-identified and aggregated information to any third party unless that third party agrees not to attempt re-identification or de-aggregation. For UA Data to be considered de-identified, all direct and indirect personal identifiers must be removed, including names, ID numbers, dates of birth, demographic information, location information, and school information. Upon request by UA, Supplier will deliver, destroy, and/or make available to UA, any or all UA Data.

Notwithstanding the foregoing, if the Agreement allows Supplier to provide aggregated and de-identified data to third parties, then Supplier may provide such data solely to the extent allowed in the Agreement, and, unless otherwise stated herein, only if such data is aggregated with similar data of others (i.e. is not identified as UA, ABOR, or Arizona-specific).

4.48 Non-Discrimination, Affirmative Action. Contractor and subcontractor shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

4.49 Clean Air and Federal Water Pollution Control Act. The successful vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

4.50 COVID-19 Safety Protocols. The successful vendor must comply with FAR 52.223-99.

4.51 PCI DSS AND PABP COMPLIANCE. Contractor acknowledges, warrants and will maintain all applicable PCI DSS requirements to the extent the service provider handles, has access to, or otherwise stores, processes, or transmits the customer's cardholder data and/or sensitive authentication data and/or can affect security of those entities that store, process, or transmit cardholder data (e.g. Managed Services).

Furthermore, Contractor must certify at time of contract/agreement to be in compliance and continue to meet all applicable requirements by providing validation either by appearing on the VISA Global Registry of Service Providers (CISP), Payment Card Industry Security Standards Council Validated Payment Applications list (if applicable), or provide a completed and signed Attestation of Compliance (AOC) signed by a PCI approved Quality Security Assessor (QSA). Any change in Contractor's certification requires prompt (within thirty (30) days) written notification to the University of Arizona.

Furthermore, Contractor agrees to provide to the University of Arizona upon request, any supporting compliance documentation such as but not limited to Approved Scan Vendor (ASV) Attestation of Compliance (AOC), external scan results, penetration testing results, and/or a completed Service Provider Self-Assessment Questionnaire (SAQ) D (if not completing a third-party assessment).

Contractor agrees to indemnify the University of Arizona for any breach of its cardholder data attributed to the application, system, or Contractor controlled interface to CHD or service provided by the Contractor. Contractor agrees to notify the University of Arizona authorized representative within 24 hours in the event of unauthorized release of cardholder data

Contractor must provide written documentation, which outlines the specific PCI DSS compliance responsibilities of both the Contractor and the University of Arizona.

4.52 Assignment. Contractor agrees that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries, trade secrets and other work product that is conceived, made or discovered by Contractor, solely or in collaboration with others, during the performance of this Agreement, including all copyrights, patents, or other intellectual property rights therein (collectively, "**Work Product**"), are the sole property of the University. To the extent allowable under law, all Work Product will be deemed "Work For Hire" under the Copyright Act. To the extent any Work Product is not "Work For Hire," Contractor will assign (or cause to be assigned) and does hereby assign fully to University all right, title and interest in and to all Work Product. Contractor will assist University or its designee, at University's expense, in every proper way to establish, secure, perfect and maintain University's ownership rights in the Work Product, including the disclosure to the University of all pertinent information and data with respect thereto, and the execution of all applications, assignments and all other instruments reasonably requested by University.

4.53 Pre-Existing Materials. If, in the course of performing the Services, Contractor incorporates into any Work Product developed hereunder any invention, improvement, development, concept, discovery or other proprietary information owned by Contractor or in which Contractor has an interest: (i) Contractor shall inform University, in writing before incorporating such invention, improvement, development, concept, discovery or other proprietary information into any Work Product; and (ii) Contractor hereby grants University, under all of Contractor rights therein, a nonexclusive, royalty-free, perpetual, irrevocable, worldwide license to use, reproduce, distribute, perform, display, prepare derivative works of, make, have made, sell and export such item as part of or in connection with such Work Product. Developer shall not incorporate any invention, improvement, development, concept, discovery or other proprietary information owned by any third party into any Work Product without University's prior written permission.

4.54 Information Security

4.54.1 Definitions

4.54.1.1 Authorized Users. Authorized users means and is limited to (1) Authorized Employees; and (2) Vendor's subcontractors, agents, and auditors who have a need-to-know or otherwise access data to enable the Vendor to comply with the Agreement, and who are bound in writing by confidentiality obligations sufficient to protect University Data in accordance with the terms hereof.

4.54.1.2 Confidential Information. Confidential information means any nonpublic information that is confidential or proprietary to a party and is disclosed or becomes known pursuant to this agreement. Except to the extent information is required to be kept private or confidential pursuant to other law, regulation, or policy, "Confidential Information" does not include information that is or becomes generally available or known to the public through no act of omission of the receiving party; was received lawfully from a third-party through no breach of any obligations of confidentiality owed to the disclosing party; or created by a party independently of its access to or use of other party's information.

4.54.1.3 University Data. University data means any and all data, information, text, graphics, works and other materials that are collected, loaded, stored, accessible, transferred through and/or accessed by the University in the course of using Vendor's services, including, but not limited to: (1) updates, modifications and/or deletions; (2) all of the results from the use of services; and (3) all information and materials that you develop or acquire prior to, or independently of, the Agreement. University Data is Confidential Information.

4.54.1.4 Data Compromise. Data compromise means any actual or reasonably suspected unauthorized access to, or acquisition of, data that compromises the security, confidentiality or integrity of the data or the ability of the University to access the data.

4.54.1.5 Information Security Incident. Information security incident means any actual or reasonably suspected incident, or imminent threat of unauthorized access, use, disclosure, breach, modification, or destruction of University Data; interference with information technology operations; or significant violation of the University's information security policy or the information security provisions of this Agreement.

4.54.2 Concepts

4.54.2.1 University Data Protection. All facilities used by or on behalf of the Vendor to store and process University Data will implement and maintain administrative, physical, technical, and procedural safeguards in accordance with industry best practices at a level sufficient to secure such data from unauthorized access, destruction, use, modification or disclosure. Such measures will be no less protective than those used to secure the Vendor's own data of a similar type, and in no event, less than reasonable in view of the type and nature of the data involved. The Vendor must maintain the administrative, physical, technical and procedural infrastructure associated with the provision of services to the University in a manner that is, at all times

during the term of this Agreement, at a level equal to or more stringent than those specified by the parties to this Agreement.

4.54.2.2 Access Control. The Vendor will control access to the University's Data, limiting access to Authorized Users who have a legitimate need to know based on individual work assignment for the Vendor. The Vendor will trace approved access to ensure proper usage and accountability, and the Vendor will make such information available to the University for review, upon the University's request and not later than five (5) business days after the request is made in writing.

4.54.2.3 Patch Management. Vendor will carry out updates and patch management for all systems and devices in a timely manner, applying security patches within five (5) business days or less based on reported criticality. Updates and patch management must be deployed using an auditable process that can be reviewed by the University upon the University's request and not later than five (5) business days after the request is made in writing. An initial report of patch status must be provided to the University prior to the effective date of this Agreement.

4.54.2.4 Scanning and Penetration Testing. Prior to the Effective Date of this Agreement, and at regular intervals of no less than annually, and whenever a change is made which may impact the confidentiality, integrity, or availability of University Data, and in accordance with industry standards and best practices, Vendor will, at its expense, perform scans for unauthorized applications, services, code and system vulnerabilities on the networks and systems used to perform services related to this Agreement. An initial report must be provided to the University prior to the Effective Date of this Agreement. Vendor will provide the University the reports or other documentation resulting from the audits, certifications, scans and tests within five (5) business days of Vendor's generation or receipt of such results. The Vendor will, if such results so require, within thirty (30) calendar days of receipt of such results, promptly modify its security measures in order to meet its obligations under this Agreement and provide the University with written evidence of remediation. The following audits, certifications, scans, and tests are required:

- A vulnerability scan performed by a third-party of the Vendor's systems and facilities that are used in any way to deliver services under this Agreement;
- A formal penetration test performed by qualified personnel of the Vendor's systems and facilities in use in any way to deliver services under this Agreement; and
- The University may require the Vendor to perform additional audits and tests, the results of which will be provided to University within seven (7) business days of Vendor's receipt of such results.

4.54.2.5 Encryption. All systems and devices that store, process and/or transmit Confidential Information must use an industry standard encryption protocol for data in transit and at rest.

4.54.2.6 Security Development. Vendor will use secure development and coding standards; including secure change management procedures in accordance

with industry standards. The Vendor's web applications must meet OWASP Application Security Verification Standards (ASVS). The Vendor will perform penetration testing and/or scanning prior to releasing new software versions. Vendor will provide internal standards and procedures to the University for review upon the University's request.

4.54.2.7 Deterioration and Degradation. Vendor will protect University Data against deterioration or degradation of quality and authenticity, including, but not limited to, annual data integrity audits performed by an independent, external organization.

4.54.3 Notification. Any notices or communications required or permitted to be given to the University under this Agreement must be (i) given in writing and (ii) transmitted by electronic mail transmission (including PDF), to the University Information Security Office at security@arizona.edu. Any such notice or communication must be deemed to have been given on the day such notice or communication is sent electronically, provided that the sender has received a read receipt or other replied acknowledgement of such electronic transmission.

4.54.3.1 Notification and Data Compromise. Unauthorized access or disclosure of nonpublic data is considered to be a breach. The Vendor will provide notification, as soon as it is aware of the Data Compromise or breach, to the University Information Security Office at security@arizona.edu. When the Vendor is liable for the loss, the Vendor must bear all costs associated with the investigation, response and recovery from the breach, including, but not limited to, credit monitoring services with a term of at least three (3) years, mailing costs, website and toll-free telephone call center services. Any limitation on liability in this Agreement or elsewhere is void to the extent that it relieves a Vendor from its own negligence or to the extent that it creates an obligation on the University to hold the Vendor harmless.

4.54.3.2 Incident Reporting. Vendor will report all other Information Security Incidents to the University within 24 hours of discovery.

4.54.3.3 Third-Party Requests. The Vendor will notify the University immediately if the Vendor receives any third-party request for University Data, including but not limited to a subpoena, a court order, a public records request, a request directly from a data subject, or other type of inquiry or demand; or the location or method of transmission of University Data is changed. All notifications to the University required in this Information Security paragraph will be sent to the University Information Security Office at security@arizona.edu, in addition to any other notice addresses in this Agreement. In all such instances, to the extent legally feasible, the Vendor will not provide any University Data to such third-party and will instead direct the requestor to the University.

4.54.4 Workforce Security and Location. The Vendor will comply with workforce location and security clauses as outlined in this Agreement. Additionally, the Vendor will ensure their workforce is properly trained on information security and privacy practices of the University and on any information security or privacy regulations, as required by applicable rules. The Vendor must promote and maintain an awareness of the importance of securing the University Data to Employees and agents

4.54.4.1 Offshore. The University may select or restrict where University Data will be stored and where University Data can be processed, and the Vendor will store and/or process it there in accordance with the service terms. If a data location selection is not covered by the service terms (or a Data Location Selection is not made by the University with respect to any University Data), the Vendor will not be restricted in the selection of University storage or processing facilities. Any services that are described in this Agreement that directly serve the University and may involve access to sensitive University Data or development or modification of software for the University will be performed within the borders of the United States. Unless stated otherwise in this Agreement, this requirement does not apply to indirect or “overhead” services, redundant back-up services or services that are incidental to the performance of this Agreement. This provision applies to work performed by subcontractors at all tiers and to all University Data.

4.54.4.2 Background Checks. The Vendor must conduct background checks and not utilize any individual to fulfill the obligations of this Agreement, including subcontractors, if such individual has been convicted of any crime involving dishonesty or false statement including, but not limited to fraud and theft, or otherwise convicted of any offense for which incarceration for a minimum of one (1) year is an authorized penalty. Any such individual may not be an “Authorized User” under this Agreement.

4.54.5 Audit. The Vendor will, at its expense, conduct or have conducted such audits and certifications as defined under this section at least annually, and immediately after any actual or reasonably suspected breach. The Vendor will provide the University the results of any such audits as defined under this section, along with the Vendor’s plan for addressing or resolving any shortcomings identified by such audits, within seven (7) business days of the Vendor’s receipt of such results.

4.54.5.1 Security Reviews. The Vendor will complete one of the following audits at least annually and immediately after any actual or reasonably suspected Data Compromise: SOC 2 Type I or II, SOC for Cybersecurity, or an accepted Higher Education Cloud Vendor Assessment Tool. Evidence must be provided to the University prior to the Effective Date of this Agreement and at least annually thereafter.

4.54.5.2 Reports. The University reserves the right to annual, at a minimum, review of: Vendor access reports related to access to University Data; Vendor patch management process, schedules, and logs; findings of vulnerability scans and/or penetration tests of Vendor systems; and Vendor development standards and processes.

4.54.5.3 Additional Audits at University Request. The University may require the Vendor to perform additional audits and tests, the results of which will be provided to the University within five (5) business days of the Vendor’s receipt of such results.

4.54.6 Destruction and Return of University Data. Except as permitted in other areas of the Agreement, the Vendor will promptly return the University’s Confidential Information upon termination of this Agreement, the final performances of services

under this Agreement, or upon the request of the University, whichever comes first. In the event the Vendor has non-unique copies of the University's Confidential Information that are also held by or returned to the University, the Vendor may, in lieu of returning such non-unique copies, destroy such Confidential Information in all forms and types of media and provide written confirmation or certification of such destruction.

5.0 SCOPE OF WORK, SPECIFICATIONS, TECHNICAL REQUIREMENTS

5.1 SCOPE OF WORK Broadcast systems integrator, "Contractor", shall supply, install, commission and document for Arizona Public Media (AZPM) all technical systems for a new purpose-built radio and television facility as described in this section.

5.2 Box Link for all attachments: <https://arizona.box.com/s/ain107plungdd2vcncnbuj8uhdzvxhtx>

5.3 NEW FACILITY FLOORPLAN Contractor shall supply, install, and commission for AZPM technical systems in the following areas: See attached floorplan

5.3.1 1ST FLOOR

- CENTRAL EQUIPMENT ROOM #148
- TV STUDIO A ROOM #110/210
- TV STUDIO A VIDEO CONTROL ROOM #155
- TV STUDIO A AUDIO CONTROL ROOM #157
- TV MASTER CONTROL-INGEST QC ROOM #132
- GREEN ROOM #159
- FLASH STUDIO B ROOM #143C
- FLASH CONTROL ROOM #143B
- TALK SHOW STUDIO C ROOM #127
- RADIO PERFORMANCE STUDIO A ROOM #143
- RADIO PRODUCTION CONTROL A ROOM #139
- RADIO PRODUCTION CONTROL B ROOM #121
- RADIO PRODUCTION CONTROL C ROOM #126
- RADIO CONTROL ROOM KUAT-FM ROOM #130
- RADIO CONTROL ROOM KUAZ-FM ROOM #128
- GREEN ROOM B #136
- PODCAST STUDIO ROOM #120
- PODCAST STUDIO (PUBLIC ACCESS) ROOM #101
- FIELD PRODUCTION ROOM #110-A1
- SMALL CONFERENCE ROOM #125
- SHADED ENTRY PLAZA
- TECHNICAL SERVICES/MAINTENANCE ROOM #150
- COMMUNITY STUDIO ROOM #105
- RECEPTION ROOM# 100

5.3.2 2nd FLOOR

- EDIT ROOM 01 ONLINE #265
- EDIT ROOM 02 OFFLINE #266
- EDIT ROOM 03 OFFLINE #267
- EDIT ROOM 04 OFFLINE #268
- EDIT ROOM 05 OFFLINE #269
- EDIT ROOM 06 OFFLINE #270

- AUDIO POST PRODUCTION SUITE ROOM #272
- NEWSROOM
- ALL GENDER REST ROOM #212
- CONFERENCE ROOM #201
- STAFF LOUNGE ROOM #215
- SMALL CONFERENCE ROOM #216
- CONFERENCE ROOM #250
- COLLABORATION ROOM #252
- IT/GENIUS BAR ROOM #259

5.3.3 3RD FLOOR

- DCC AV Room #305A
- Digital Conference Center #305

5.3.4 CHANGE ORDER

The Purchase Order may be amended in writing, within scope, upon the agreement of both parties.

5.4 RESPONSIBILITY ASSIGNMENTS

See table 1 “Responsibility Matrix” below

Equipment / FFE Responsibility Matrix	Designed By				Documented By				Funded and Furnished By			Installed By				Commissioning/ Testing			
	SG	RBDG	NV5	System Integrator	SG	RBDG	NV5	System Integrator	DB GMP	User - AZPM	Owner - UA	DB GMP	User - AZPM	Owner - UA	System Integrator	DB GMP	User - AZPM	Owner - UA	System Integrator
Special Systems																			
Broadcast Infrastructure																			
Broadcast cable raceways				X			X		X			X							
Broadcast cabling				X			X		X					X					
Broadcast specialty cabling				X			X		X						X				
Broadcast specialty connectors, termination, panels				X			X		X						X				
Broadcast specialty back boxes				X			X		X			X							
Technical Power																			
Load estimates				X	X														
Receptacle layout; identification of dedicated circuits				X	X				X			X							
Circuiting	X				X				X			X							
Tech power distribution to receptacles	X				X				X			X							
Supplementary ground buses and ground conductors				X	X				X			X							
Broadcast: power strips in equipment racks, equipment connections, rack-mounted UPS				X			X		X						X				
Broadcast Equipment																			
Equipment racks				X			X		X						X				
Equipment rack pedestals				X			X		X			X							
Hot aisle / cold aisle containment	X				X				X			X							
Mounting accommodations (e.g. blocking)				X	X				X			X							
Fixed rails for PTZ cameras				X	X	X			X			X							
Brackets for wall mounts (cameras, displays, speakers, clocks)				X			X		X						X				
Cameras, displays, speakers, clocks, digital signage				X			X		X						X				
Cameras, displays, speakers, clocks, digital signage infrastructure				X			X		X						X				
Warning lights, scheduling displays				X	X	X			X						X				
All other broadcast equipment				X			X		X						X				
Technical furniture				X			X		X						X				
Set, Prop, Grip Storage																			
Cages / demountable wire partitions	X				X				X			X							
Antenna/Satellite Dishes				X	X		X		X						X				
Structural Support	X				X				X			X							
Cabling				X			X				X				X				
Cabling infrastructure				X			X				X				X				
Power	X				X				X			X							
Ground and bonding				X	X				X			X							

Table 1 Responsibility Matrix

5.5 INCLUSIONS

- AUDIOVISUAL CONNECTOR INSERT PLATES FOR FLOOR BOXES AND / OR WALL BOXES
- AUDIOVISUAL CABLING AND TERMINATIONS FOR ALL AUDIOVISUAL SYSTEMS
- PROJECTORS, FLAT PANEL DISPLAYS, CONTROL PANELS, MICROPHONES, SPEAKERS AND OTHER
- ALL AUDIOVISUAL EQUIPMENT AND TERMINAL GEAR
- INTEGRATION OF ALL EQUIPMENT ¹
- LECTERNS / SPECIALTY TECHNICAL FURNITURE
- AUDIOVISUAL EQUIPMENT RACKS

¹ Includes vendor supplied, AZPM supplied and "others" supplied equipment

- COMPLETE DRAWING PACKAGE PER CUSTOMER SPECIFICATION
- WIRING LIST AND DATABASE EQUIPMENT, CABLING, INSTALLATION, LABLING, TESTING AND CONFIGURATION ACCEPTANCE TEST PLAN PER CUSTOMER SPECIFICATION
- SERVICE LEVEL AGREEMENT AND HARDWARE AGREEMENT (SLA/HMA) FOR 2 YEAR PERIOD
- PRICING OF SLA/HMA (VENDOR OR SI) FOR ADDITIONAL TERM AFTER 2 YEAR WARRANTY

5.6 EXCLUSIONS

- RF MICROWAVE AND SATELLITE SYSTEM ON ROOF AND WITHIN ROOF TOP ROOM
- STRUCTURED CABLING AND LAN TBA
- NON-TECHNICAL FURNITURE
- ELECTRICAL POWER
- LIGHTING GRIDS
- PRO-CYC
- CYC RAILS
- LIGHTING CONTROL
- MASTER CONTROL AUTOMATION, RECORD AND PLAYOUT
- ATSC 3.0 AIRCHAIN ENCODE/DASH PACKAGER/SCHEDULER
- AZPM SUPPLIED EQUIPMENT (TO BE SUPPLIED)

5.7 FACILITY TECHNICAL SPECIFICATIONS

5.7.1 Overall Facility Technology The new facility will encompass the latest technology to support Ultra High Definition (UHD) video, 5.1 surround and 7.1+4 Dolby Atmos audio, 12G and SMPTE 2110 transport and an IPTV content distribution system for internal use. All systems shall incorporate SNMP monitoring and control interface. For detail design requirements see enclosed document AZPM Broadcast & AV DD SET attachment.

5.7.2 Overall Facility Technical Specifications The facility shall incorporate the following technical specifications.

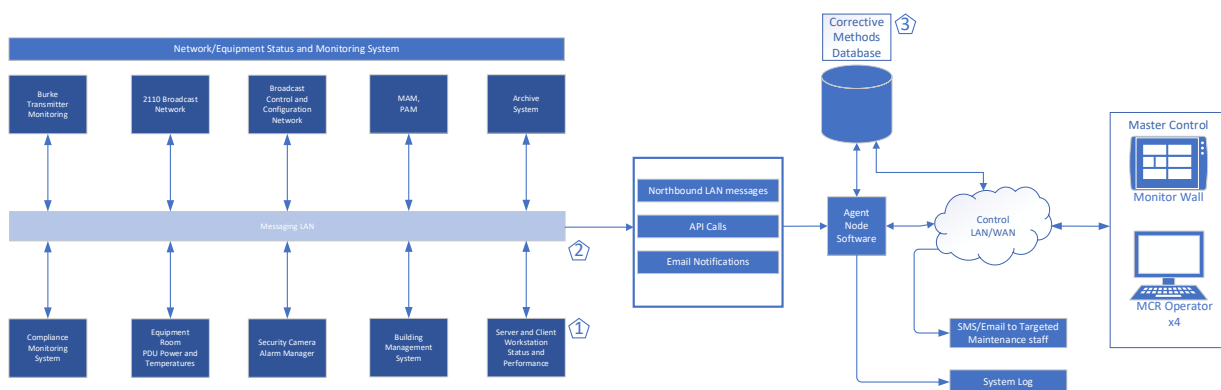
- SMPTE ST 274M-2005 High-Definition Video
- ITU-R BT2020 UHD
- SMPTE ST 259M SD Video
- SMPTE ST 292M HD SDI Video
- SMPTE RDD-22 2012 (XD CAM)
- SMPTE ST 372-2017 Dual Link HD 60/P
- SMPTE ST SDI HD/HD 3G Serial Interface
- SMPTE ST 305 Serial Data Transport Interface
- SMPTE ST 2082-1 2015 12G Serial Interface
- SMPTE ST 2022-2,-3,-4,-6,-7 TS/SDI over IP
- SMPTE ST 2110 -10,-20,-30,-40 Audio and Video over IP
- SMPTE ST 2059-2 PTP
- PBS Technical Operating Specification Part 1 2020 (attachment)
- PBS Technical Operating Specification Part 5 2020 (attachment)
- AZPM Production Specification ANNEX C and ANNEX D
- AES 67 Audio (or any other audio standards)

- ETSI: “Digital Audio Compression (AC-4) Standard; Part 1: Channel based coding,” Doc.
- [2] ETSI: “Digital Audio Compression (AC-4) Standard; Part 2: Immersive and personalized audio,” Doc.

5.7.3 Overall Facility Security Requirements Contractor shall develop and comply with all Security requirements in accordance with UofA Information Security Policies, Standards and Procedures, including but not limited to:

- UofA security policy, contractual requirements, Service Levels and statutory requirements.
- Assist AZPM IT in activities to develop, implement, and maintain approved cross-delivery solutions that meet all virus protection requirements.
- Assist AZPM in activities to develop, implement, and maintain of approved Cross-Delivery Solutions that meet all Malware Protection requirements in accordance with UofA Information Security Policies, Standards and Procedures.
- Assist AZPM in coordinating and managing the Other Providers to install, update and maintain Software that will provide security monitoring, alarming, and access tracking functionality.
- Contractor will coordinate with or manage the centralized access mechanism, as per AZPM’s request, for authenticating and authorizing users for any and all activity related to scope of work throughout the system including but not limited to:
 - a. Assigning and managing access rights to all system-wide objects within the Respondent's scope of responsibilities
 - b. Providing role-based access for direct system access
 - c. Providing ports access
 - d. “White List” of executables
 - e. O.S. Path Accessibility

5.7.4 Overall Applications and System Monitoring and Control All systems shall provide SNMP protocol and can be managed and monitored via station monitoring and control network.



NOTES:

1. A function of the Agent Node Software package.
2. Additional reporting system can be added at low or reasonable cost depending on existing software libraries.
3. Database has manuals, trouble shooting guides, contact lists, restart procedures other sources of information that are referenced depending on the source and nature of the fault of error collected by the system.

AZPM Conceptual Design	
Master Control - Room 132 System Monitoring	Date: 9/1/2022 Author: R. SILVERMAN



5.7.5 User Acceptance Testing (UAT) Contractor shall be responsible for managing the UAT process and shall perform activities pertaining to UAT in both the build and operational phases with AZPM and all service recipients, including but not limited to:

- Maintaining coordination with all necessary operators, service recipients, and other stakeholders for UAT related activities.
- Jointly developing UAT criteria and test cases and scripts with production, engineering, IT and necessary department leads and third-parties if required.
- Providing and maintaining the UAT testing environment.
- Conducting UAT testing and preparing UAT test results reporting materials.
- Obtaining sign off from production, engineering, IT and department leads and third-parties if required.

5.7.6 Factory Acceptance Testing (FAT) Contractor shall be responsible for managing the FAT process and shall perform activities pertaining to FAT in both the Development and Deployment phase and the Management and Maintenance phase, including but not limited to:

- Maintaining coordination with all necessary Equipment Suppliers and AZPM personnel for deliverables, configuration and testing.
- Jointly developing FAT criteria and test cases and scripts with users, engineers, and IT.
- Conducting FAT Testing and preparing FAT test results reporting materials.
- Obtaining sign off from Service Recipient and AZPM on FAT results.

5.7.7 Design Documentation Design documentation shall be provided as AutoCad LT file format and design should be able to fit within ANSI B (11x17) for ease of use and storage. Cable Management System shall be a fully supported database and include all pertinent information (i.e. source, destination, ID number, signal type, etc.). Vendor to supply examples in RFP response.

5.7.8 Central Equipment Room The Central Equipment Room is approximately 1000 sq ft. of technical space on raised floor with sufficient power and cooling for approximately 40 racks of equipment. All centralized network for fiber and copper LAN based equipment connection points with tie lines to studios and control rooms will be terminated here. Facility will have ancillary IDF and MDF spaces for structured cable/fiber routing throughout the 'non technical/production' portion of the facility.

The CER is also the location of TV, Radio, Edit and server-based Production, Playout, automation, monitoring and control, camera control units including SMPTE camera patching. All radio and television satellite receivers, automation servers, WheatNet AoIP LAN network and interconnection ports are housed within this area.

5.7.9 Station Reference All systems are GPS locked with both time and video reference signals including reference black and Precision Time Protocol (PTP) for support of SMPTE 2110, 12G and HD/SD SDI. A comprehensive monitoring system for overall health and status of room, power and subsystem including error and remedy screens for display in the Master Control room and Technical Services.

5.7.10 Intercom The intercom system shall provide communications for all production staff within the facility and on live remote events. The user facing components will be a combination of fixed cabled panels and wireless systems. The system shall be a scalable platform that is flexible, reliable and built on IP technology. System must be flexible enough to support of media transmission and system control over the network. The media networking architecture shall support AES70, ST 2110, AES67, AES70, as well as Dante™ from Audinate for interoperability to interface with other devices throughout the station. System shall support PL, Mix Minus, multiple IFBs, and 26 intercom panels between radio and television facilities.

5.7.11 Video Routing The facility video routing system is also housed in the CER to connect all sources and destinations from production, master and radio control and distribution and monitoring. The facility router shall handle all formats including HD, SD, 12G UHD, SMPTE 2110, SMPTE 2022, TsoIP and other formats.²

The router also provides for multi-viewer presentations of 16-32 PiPs supporting up to 10 monitor displays used by production, master control or routed to IPTV for lobby displays.

There is a Quality Control station in the CER and another in the MCR with full Video UHD/HDR monitoring, Audio, PTP and SMPTE 2110 SDP monitoring.

The IPTV headend system located in the CER shall provide encoding and distribution to all Set Top Boxes and office desktops via player application on Enterprise Network. Channel Line up to include 40 feeds from Broadcast, AV, Off Air and routable inputs. The system shall be comprised of 40 IPTV encoders capable of AVC and HEVC, Media Platform Scheduler and 40 Set Top Boxes.³

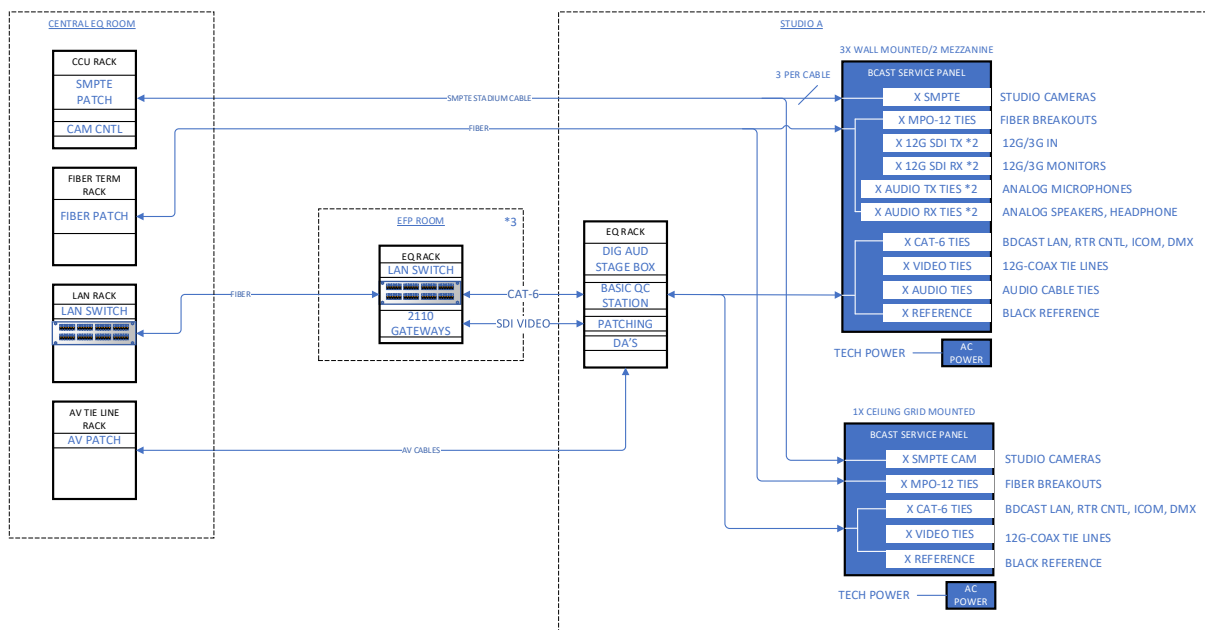
5.7.12 ITS Information Technology Services (ITS) includes compute, storage and networking to support all operations including Enterprise, MAM, and Edit Storage, Archive Systems, Master Control and Radio and Television Production. IT racks are 48" deep and can support 208VAC 3 phase power if required.

5.8 STUDIO A AND PRODUCTION OPERATIONS

5.8.1 Broadcast Service Panels Broadcast Service Panels provide interconnection from various location within and outside the facility for production, live events and corporate communications. Interconnections include SMPTE fiber, camera, microphone, router feeds, network, power and other required resources for production, live events, and presentations. There are 26 BSPs located throughout the facility wired to the CER with several types of connectivity.

² The full router list is included in Annex A

³ The IPTV source and destinations are listed in Annex B



NOTES:
 1. For Illustration only, the quantity of IO connections shown as typical. Exact number and type to be determined during detailed design.
 *2. These connection are via a fan-less interface mounted and locally powered within the BSP. The exact quantity of IO will depend on the device selected. See Elevation drawing for additional details.
 *3. Equipment with cooling fans that would be excessively noisy in the studio will be mounted in the nearby Electronic Field Production Room.

AZPM Conceptual Design	
STUDIO A BROADCAST SERVICE PANELS	9/10/2022 Author: R. SILVERMAN



Figure 2 Studio A Broadcast Service Panels

5.8.2 Studio A Studio A consists of an open floor plan 2-story box encompassing 5000-sq ft. of studio floor space with retractable audience seating on the main stage and 2nd floor balcony. The studio is located near Studio Audio and Production Control Rooms, Greenroom and Makeup room. There is an audio console required within the studio for large events having extensive audio sources such as live bands. Also nearby is set & prop storage room with clear, tall access to lobby, freight elevator & loading dock. The studio is isolated to provide soundproofing for live events or recorded broadcasts. Support gear such as chargers that are required for the primary systems, like wireless headsets and IFB is located in a rack within the studio. Studio usage to include:

- Full size bands and other performance based guests
- Pledge desks with announcer
- Presentation and or 'movie night' projection events.
- News Desk with Video Wall(s)
- Talk show style Interview desk
- Stand-Up Position
- Greenscreen for AR/VR (power and HVAC provisioned)
- Studio Audience of approx. 200

5.8.3 Studio A Technical Requirements Studio A Technical requirements include the following:

- 3 UHD (4K) Studio cameras on manual pedestals with 27x lenses with visual prompter system with integrated program monitor ⁴

⁴ Floor cameras will be able to disconnect and move to Studio B as needed.

- 1 UHD (4K) Studio camera on manual jib arm with a 24x lens
- 5 UHD (4K) PTZ cameras for audience, stage and presenters
- Overhead 4K projector with motorized dropdown screen
- Broadcast Service Panels, 3 wall and 1 ceiling grid (single port)
- Stereo Speaker system to fill studio
- Wireless Microphones, Talent IFB and Assisted Listening for general use
- Support rack (44-RU) for a QC station, tie lines and patching.⁵
- In studio mixing console for performances

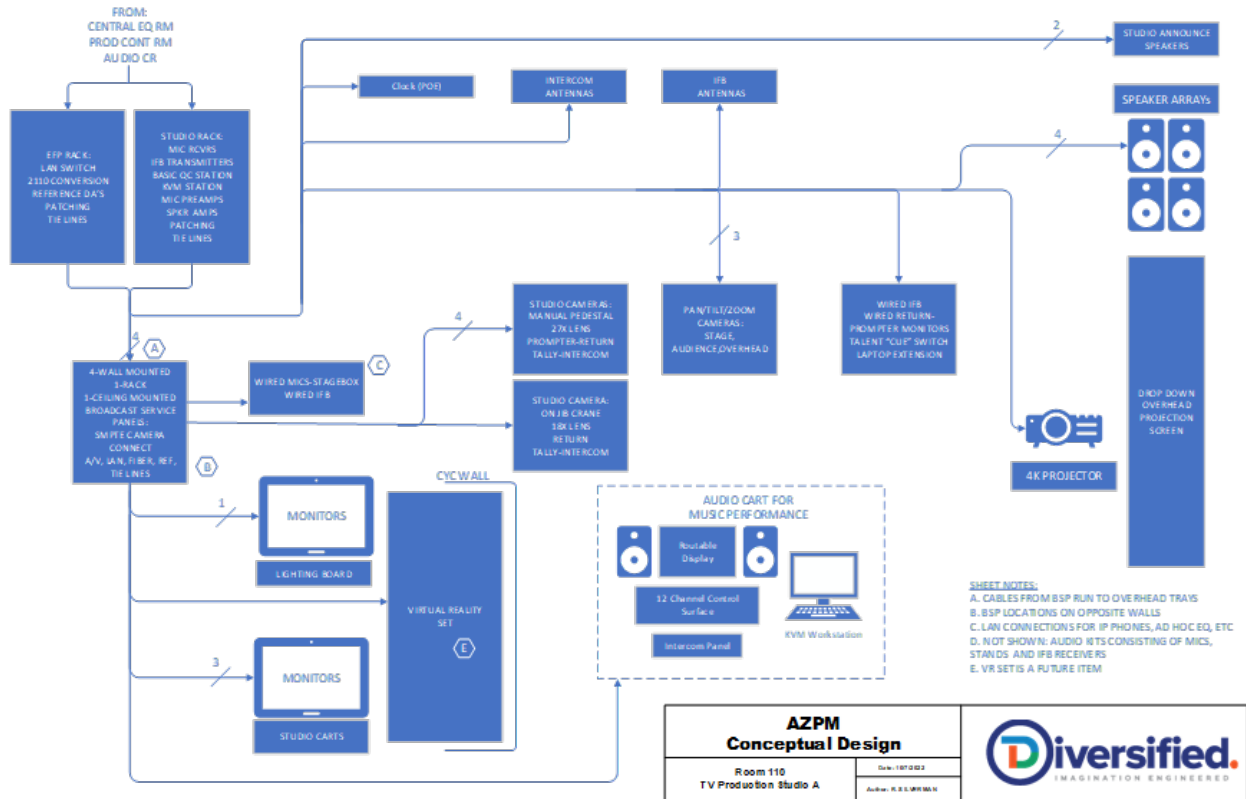


Figure 3 Studio A System Diagram

5.8.4 Studio A Video Control Room Studio A video control room is approximately 550 sq ft. with two rows of seating for camera operator, director, assistant director, technical director, production assistant, prompter and graphics operator and other positions. Control room utilizes all available feeds from production routing switcher to all available switcher inputs. A third row is available for VIP seating. The control room is conveniently located adjacent to Studio A and Studio B.

5.8.5 Studio A Control Room Technical Requirements

- Camera shading position with control system for the main and pan/tilt camera and enhanced monitoring station. (broadcast monitor, router C/P and UHD/HDR scope)
- Production Switcher with 24 inputs from production router, 2 ½ M/E + PGM/PST
- 6 75" UHD Displays with HDMI-2 fed from multi-viewer
- Monitor bridge above center console
- 4 channel GFX System

⁵ Any equipment with cooling fans to located in nearby EFP room or Technical Services.

- Access to Play/Record Servers
- 6 positions with keyboard, monitor, mouse from KVM over IP that can serve such functions as Teleprompter, Producer, Director, PA, Graphics or Playback
- Wall mounted BSP for ad-hoc or stand-up camera position.
- 5.1 Audio Monitoring (wired for 7.1)
- Clock and countdown clocks
- 5 Intercom panels from station intercom

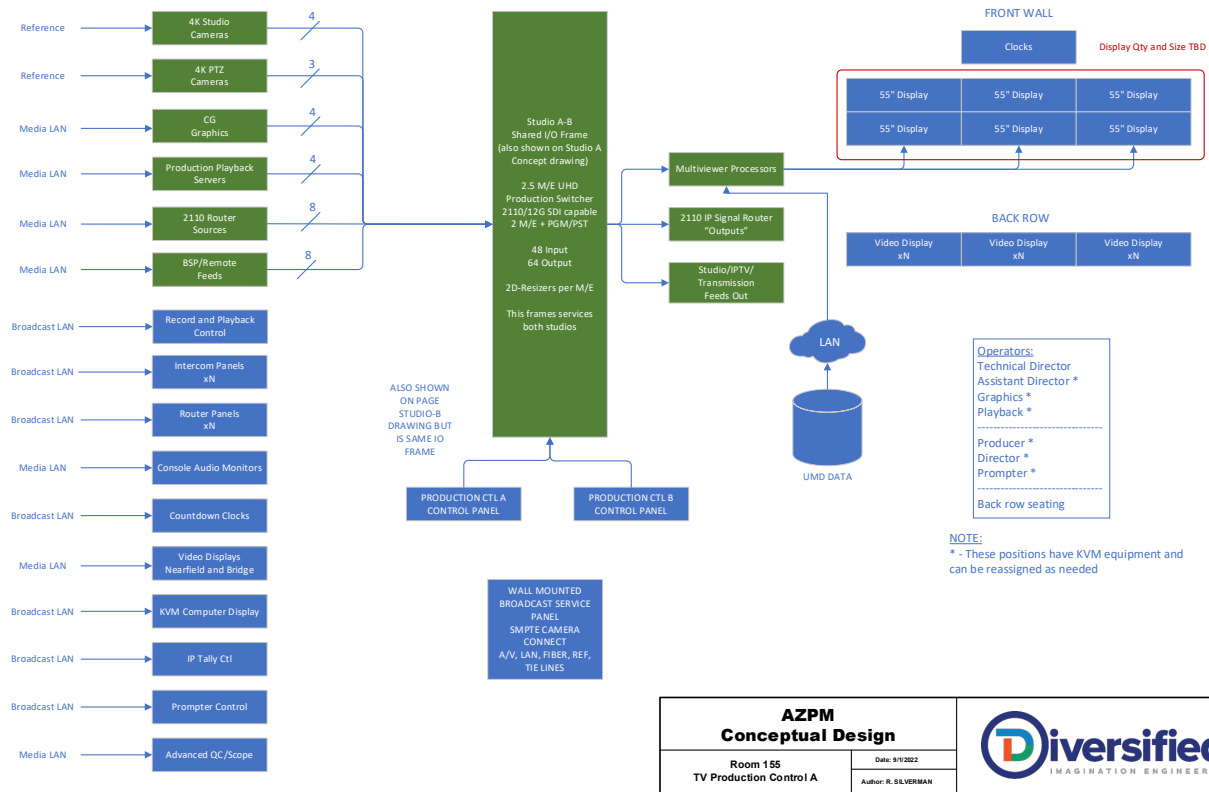


Figure 4 Studio A Video Control Room

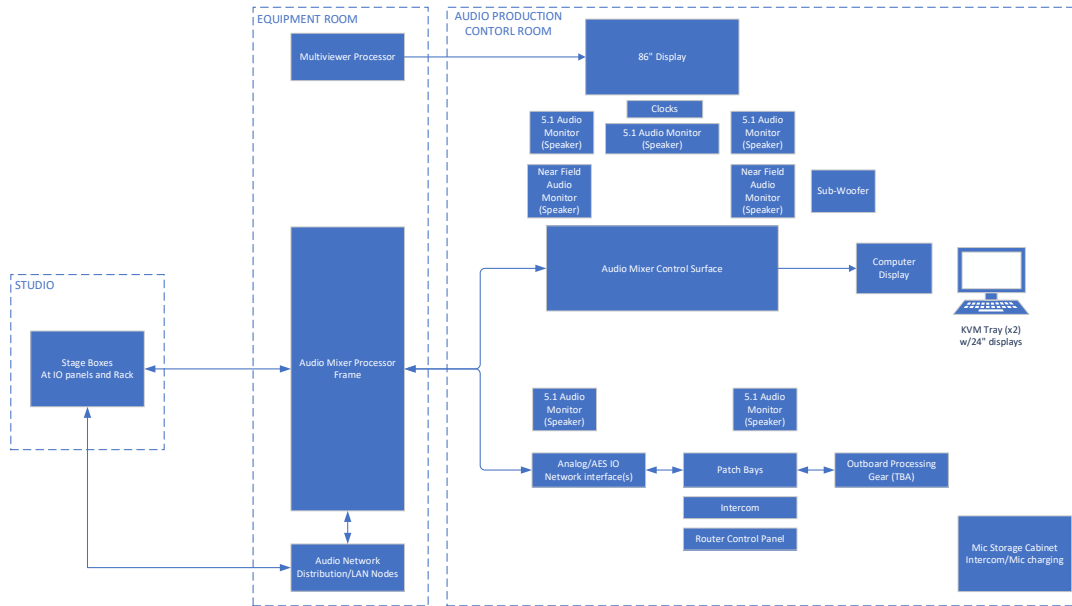
5.8.6 Studio A Audio Control Room Studio A Audio Control Room is approximately about 250 sq. ft. for audio mixing of live and pre-recorded audio. The room consists of a control console for an audio engineer with a mixing board and a rear producer console located immediately adjacent to Studio A and used for small to midsize productions. There is a monitor wall with dual 55" displays fed from the multi-viewer. The audio console will be a 24 fader Live audio board. The board will need to support future 7.1 surround and wired for support of future 7.1 monitoring.

Operator will have ability to view overhead cameras to check studio/talent status. The room will also have functionality to configure and control the wireless mics, intercom and IFB. A QC station is also included consisting of a monitor, KVM, Intercom and router.

5.8.7 Studio A Audio Control Room Technical Requirements

- Audio Mixing Processor
- Audio Mixing Control Surface 24 Fader
- Two 75" UHD Displays with HDMI-2 fed from multi-viewer
- 5.1 Monitoring System (wired for 7.1)
- 24 input Digital Stage Box

- QC station with KVM, router control panel, monitor
- 3 Intercom panels
- Clock and countdown clocks



SHEET NOTES:
 A. CABLES FROM BSP RUN TO OVERHEAD TRAYS
 B. BSP LOCATIONS ON OPPOSITE WALLS
 C. LAN CONNECTIONS FOR IP PHONES, AD HOC EQ, ETC
 D. NOT SHOWN: AUDIO KITS CONSISTING OF MICS, STANDS AND IFB RECEIVERS

AZPM Conceptual Design		
Room 157 TV Audio Control Room A	Date: 10/18/2022 Author: R. SILVERMAN	

Figure 5 Studio A Audio Control Room

5.8.8 Record and Playout System A software-based record and playout server system supports 10 channels of play/record of SD and HD formats up to 1080p (3G) and Ultra HD. System shall be flexible that allows for internal or external storage, various codecs and SMPTE 2110 IP I/O. Ingest and play shall support multiple codec formats including MPEG2 XDCAM, AVC, ProRes, VC3, XAVC and AVC-Ultra along with multiple wrapper types, bitrates, frame rates and resolutions.

5.8.9 Electronic Field Production Room The electronic Field Production Room consists of approximately 350 sq ft. room used for storage and staging of equipment being used for remote productions. A large worktable in middle of the room is used to assemble, test and pack up cameras and ancillary equipment. A separate console with 2 bays for operators to view and ingest media from a remote production that will edited or used at the station via local PCs with card ingest software. An ingest server located in the central equipment room shall receive files via SDI or file transfer. A QC station consisting of a monitor, KVM and router control is accessible from either workstation.

The room is also used as the location for two 24 RU Studio A equipment racks for any equipment that have cooling fans due to immediately adjacency to Studio A. Because of its proximity to Studio A, a wall mounted monitor is included in this room.

5.9 MASTER CONTROL AND NETWORK OPERATIONS

5.9.1 Master Control Specification Master Control is approximately 500sq ft. control room for monitoring the inbound and outbound services and compliance of TV and radio

signals. The room is also a hub for monitoring network health and streams that are outbound for OTT for streaming viewers.

Room is currently staffed from 6am until 10pm Monday through Friday and occasionally on weekends.

The room is centrally located in building first floor with glass wall to lobby for hall traffic or visitors to see the daily operations. There will be a Monitor Wall with 8 55" UHD displays fed from a multi-viewer. The displays will individually mount to the wall or free-standing structure with articulating mounts to permit access for servicing or replacement.

The room will have a 5.1 surround audio system monitoring and a dedicated audio panel driven from a router. There will be an advanced QC station with 2110/UHD QC monitor and scope which is shared with CER to record capture and troubleshoot 2110 streams. This AQC station can also be accessed remotely from other locations.

There are two QC stations consisting of a monitor, KVM, Intercom and router control. The Monitor Wall displays video sources, off air services, systems monitor and control dashboard satellite and fiber feeds, studios, and other sources via the multi-viewer or direct feed. Services include two full power television, three full power FM and one AM radio station, and streaming and services for audio and video content. The KVM will provide access to control and monitoring systems, automation systems, network monitoring, storage systems and other critical systems.

An ingest station is provided for staff and others to ingest files and videotape content. The ingest station can provide remote control of sources and destination for content to master control or production usage.

System monitoring and control will be aggregated and displayed as faults or exceptions into a Common GUI or multiple systems if required. Also link to individual systems such as transmitters, routers, etc. with also be accessible via SNMP. Context related resolution options, fault logs and history made available to the operator for expedited decisions on action to be taken and automated emails or other alerts to Technical Services personnel.

5.9.2 Master Control Technical Requirements

- System monitoring including baseband, off air, TSOIP, Radio & Television.
- Station automation and playout (Provided by others)
- Media LAN
- Two QC stations consisting of KVM, monitor, router control and intercom.
- One ingest station consisting of KVM, monitor, router control and intercom.
- One advanced QC consisting of broadcast monitor, UHD/2110 scope, audio correlation and multichannel monitor and router control.
- Multi-viewer processor.
- IPTV headend, various decoders, encoders and up/down converters.

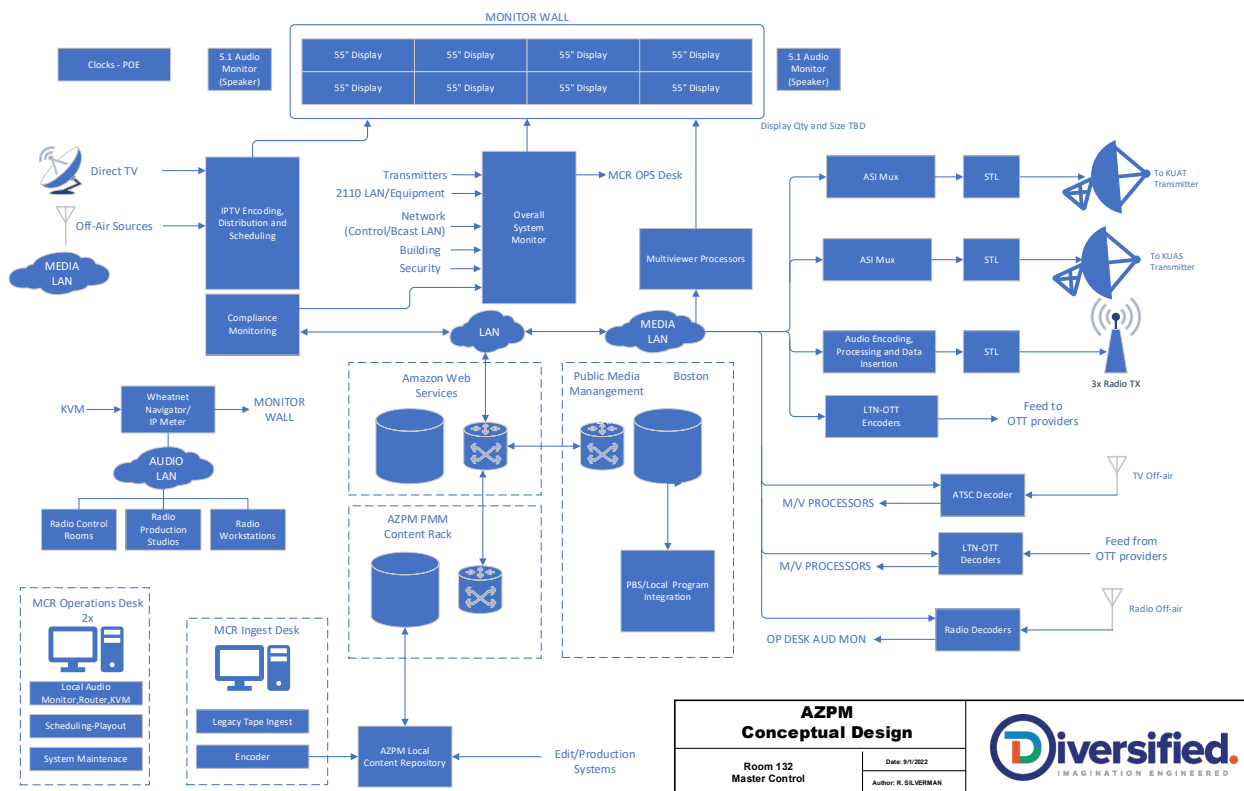


Figure 6 Master Control System Diagram

5.10 ADDITIONAL PRODUCTION FACILITIES

5.10.1 Green Room A Green Room A is approximately 150 sq ft. and is used as a waiting/staging area adjacent to Production Studio A, the Control Room and Make up Room. The room will have BSP Fiber feed, a wall mounted 65" display for both IPTV and Routable feeds.

5.10.2 Studio B Production Flash Studio Studio B consists of approximately 700 sq ft. rectangular for small productions without an audience. It is adjacent to the performance studio and shares audio/video resources with Studio A.

Sets to be Accommodated:

- News/Interview Desk with roll in monitors
- Stand-Up Position (Flashcam use)
- 3 wall (12' each) Greenscreen for AR/VR (OFE)

5.10.3 Studio B Production Technical Requirements

- 2 UHD (4K) PTZ cameras on manual pedestals for on-air desk and presenters
- 1 UHD (4K) PTZ camera fixed in ceiling for on-air desk and presenters
- 3 UHD (4K) Studio cameras on manual pedestals with motion tracking (Mo-SYS) qualified lenses that can be rolled into Studio A or other Studios as needed
- 2 wall mounted Broadcast Service Panels for cameras and other wired equipment
- Speaker system to fill studio
- Monitors on carts for talent and/or background usage
- Wireless Microphones
- Talent IFB

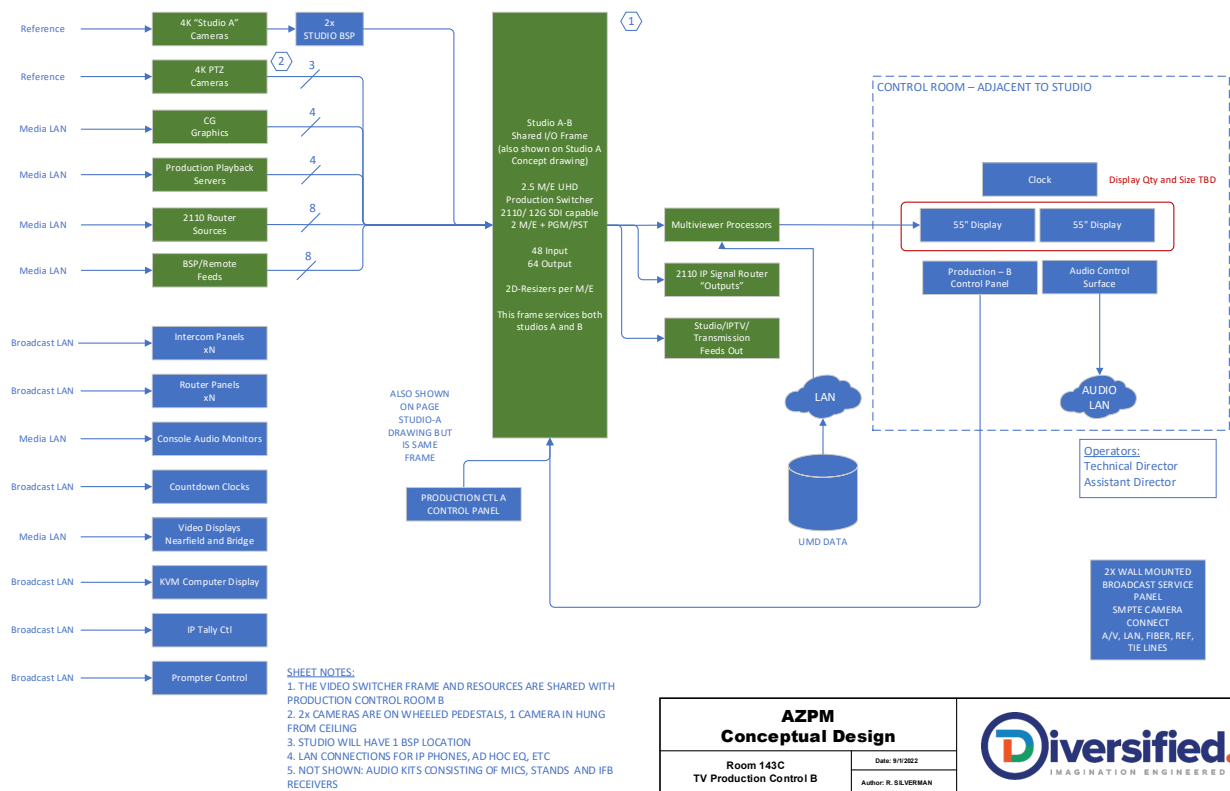


Figure 8 Studio B Control Room

5.11 RADIO OPERATIONS AND PRODUCTION

5.11.1 Radio Operations consists of content delivery, production, on air, streaming and Pod Cast activity for Classical radio service (KUAT FM) and NPR services (KUAZ 1550/KUAS FM/KUAZ FM). The seven day a week operation provides entertainment, local and national programs, national news and public service to Southern Arizona.

5.11.2 Radio Operations Technical Specification

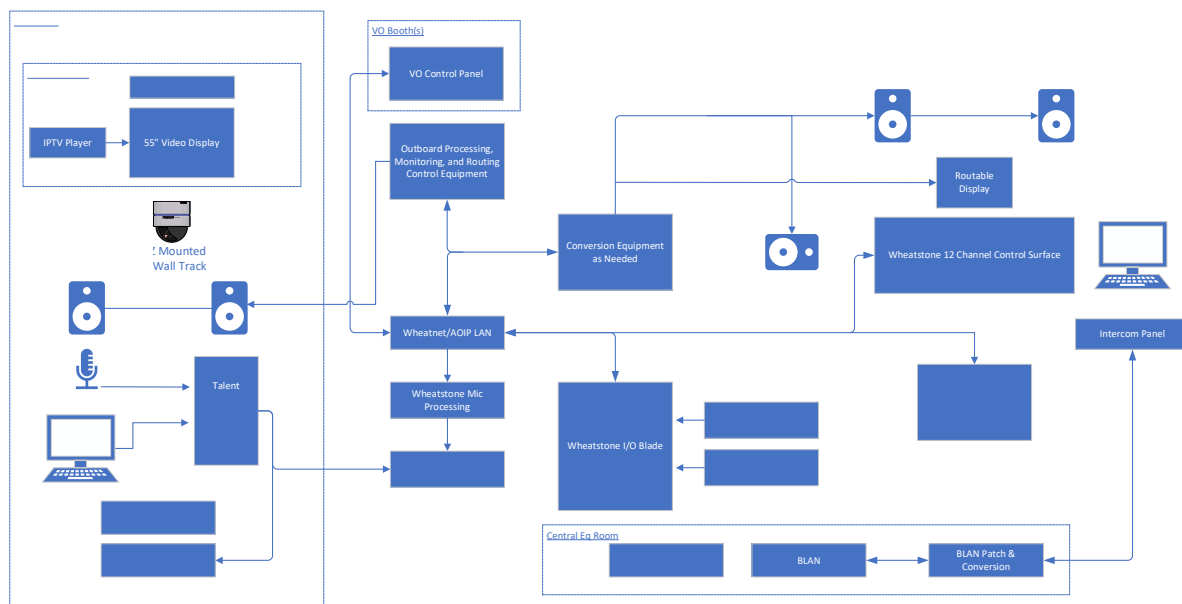
- Radio Performance Studio
- Radio Studio A
- On Air Control Room KUAT
- On Air Control Room KUAZ
- Talk Show Studio C
- Radio Production Control B
- Radio Production Control C
- Podcast Studio (Public)
- Podcast Studio (station)
- Voice & Tracking Rooms
- NewsRoom
- WheatNet audio over IP network and room consoles (CFE)
- RSC Zetta Automation
- NPR Satellite Receivers and Content Depot
- PTZ Camera Systems for OTT distribution

5.11.3 Talk Show Studio C Talk Show Studio C is approximately 300 sq ft. control rooms on the 1st floor in the Radio Operations area adjacent to the Talk Show Control C. A

console for an operator/talent and additional seating for on air talent or guests. Each talent position will have an individual headset/mic control interface. There will be a telephone interface with a 12-button studio handset. The room will have a 2.1 stereo audio monitoring system. There will be two network connected PTZ cameras. There will be a routable QC monitor and Intercom station. The room will have three wall mounted displays for an IPTV/Routable feed.

5.11.4 Talk Show Control Room C

- Wheatstone L12 fader network connected Audio Console Surface
- A telephone interface with a 12-button studio handset
- Genelec 2.1 stereo audio monitoring system
- Two network connected PTZ camera
- Routable QC monitor
- Intercom station
- Three 65" UHD Monitors for IPTV/Routable feeds



NOTES:

1. Rooms configured for 2.1
2. Outboard processing equipment to be installed in the front edge of the rear console and in a small cart that can nest under the mixing desk.

AZPM Conceptual Design Room 121/127 Production Control Room - B Talk Show Studio - C		Date: 10/1/22 Author: R. SILVERMAN
--	--	---------------------------------------



Figure 9 Radio Talk Show Studio C and PCR B

5.11.5 KUAT Control Room KUAT FM will broadcast AZPM Classical from the 350 sq ft. control room on the 1st floor in the Radio Operations area with a console for an operator/talent and additional seating for 4 on air talent and guests. The operator/talent will have a 12 Fader Digital Audio WheatNet console.

RCS Zeta scheduling and playout transmission system, WheatNet AoIP network and off-air transmitter status monitoring. Each talent position will have an individual headset/mic control interface. The room will have a 2.1 stereo audio monitoring system. Existing EAS/Arbitron encoders will be reused. The room will have a wall mounted 1-3 65" UHD monitors for IPTV/Routable feeds, intercom panel and clock.

5.11.6 KUAT CR Technical Specification

- Wheatstone L12 Console
- KVM to RCS Zeta CPU scheduling and playout
- Burke Air Transmitter status monitoring
- Four individual headsets with mic control interface
- Intercom panel
- Router Panel
- Genelec 2.1 stereo audio monitoring system
- EAS/Arbitron encoders (CSE)
- 65" UHD Monitor for IPTV/routable feeds

5.11.7 KUAZ Control Room KUAT FM will broadcast AZPM NPR from the 350 sq ft. control room on the 1st floor in the Radio Operations area with a console for an operator/talent and additional seating for 4 on air talent and or guests. The operator/talent will have a 12 Fader Digital Audio WheatNet console.

RCS Zeta scheduling and playout transmission system, WheatNet AoIP network and off-air transmitter status monitoring. Each talent position will have an individual headset/mic control interface. The room will have a 2.1 stereo audio monitoring system. Existing EAS/Arbitron encoders will be reused. The room will have 1-3 wall mounted 65" UHD monitor for IPTV/Routable feeds, intercom panel and clock.

5.11.8 KUAZ CR Technical Specification

- Wheatstone L12 Console
- KVM to RCS Zeta CPU scheduling and playout
- Burke Air Transmitter status monitoring
- Four individual headsets with mic control interface
- Intercom panel
- Router Panel
- Genelec 2.1 stereo audio monitoring system
- EAS/Arbitron encoders (CSE)
- 65" UHD Monitor for IPTV/routable feeds

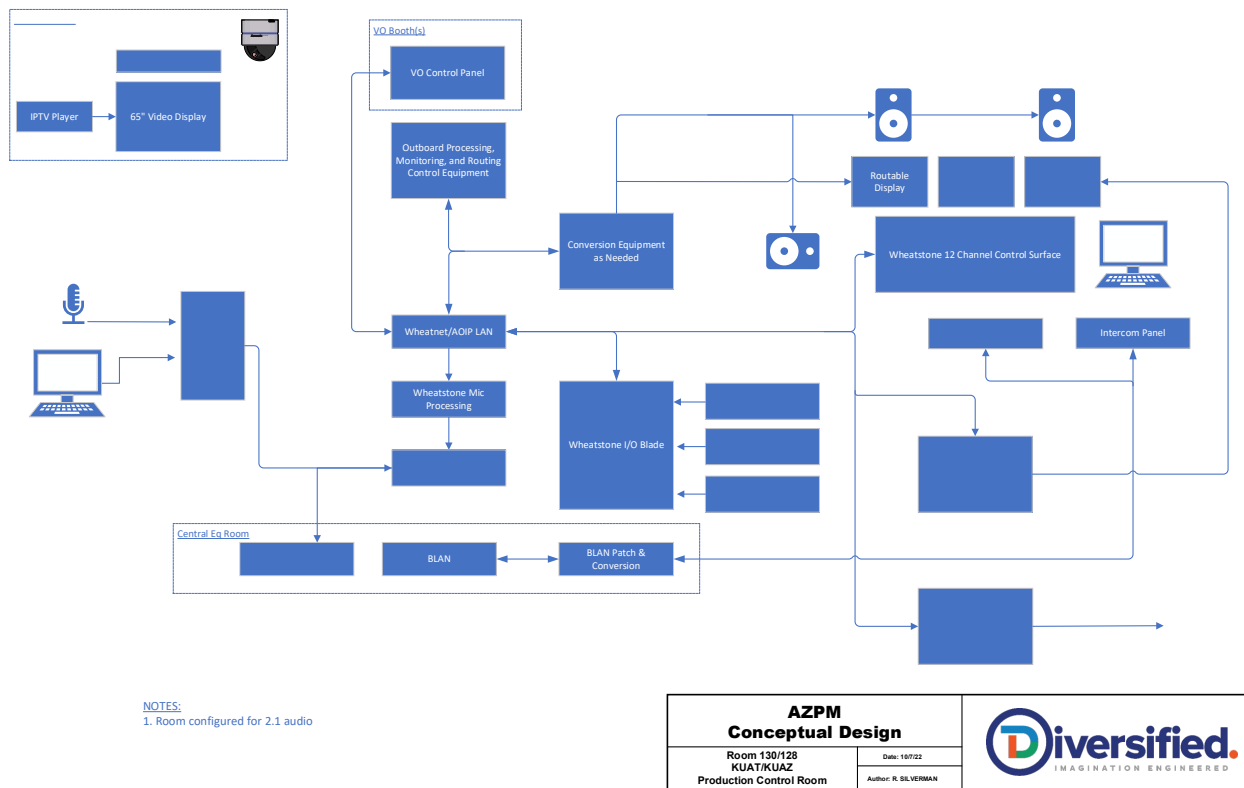
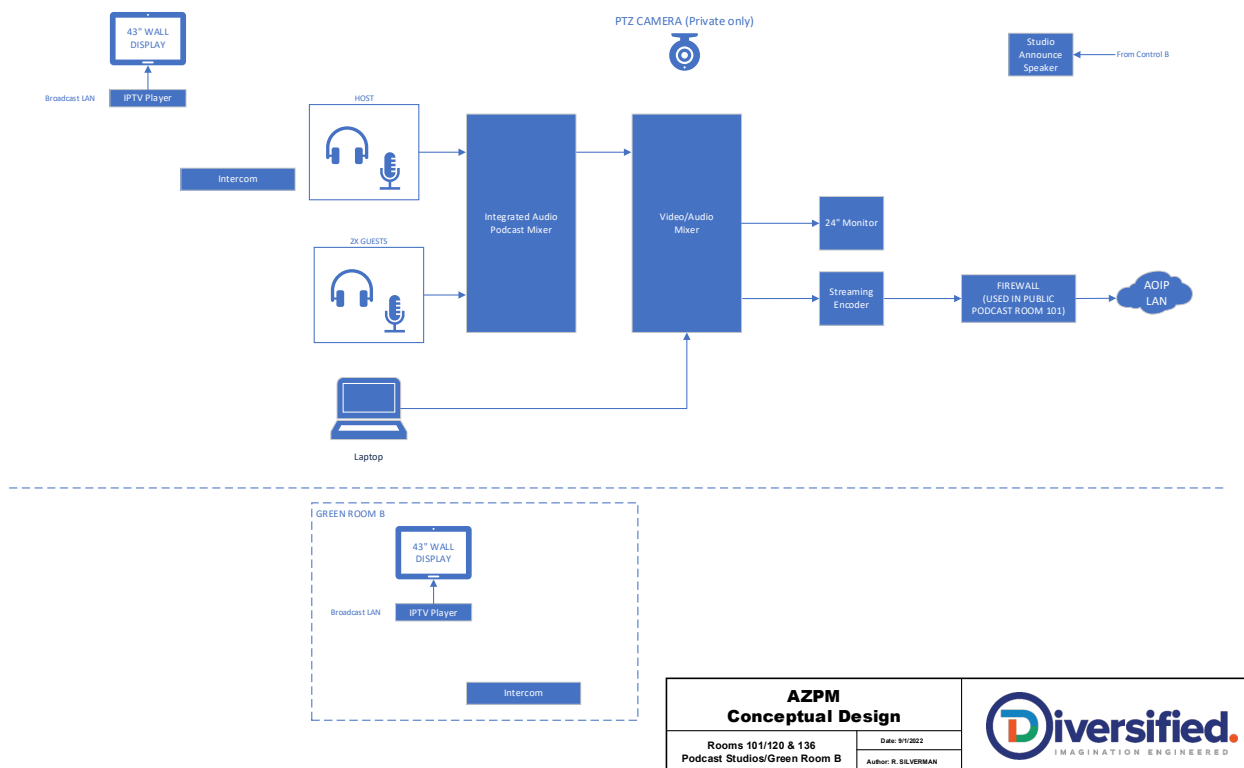


Figure 10 Radio KUAT/KUAZ Control Rooms

5.11.9 Podcast Rooms Each of the two Podcast Rooms consists of a 100 sq ft. studio/control room located on the 1st floor in the Radio Operations area adjacent to Lobby. A basic network connected Podcasting console for an operator/talent and additional seating for two additional guests. The room will have a stereo audio monitoring system. There will be a network connected PTZ camera. The room will have a wall mounted display for IPTV/Routable feeds.



5.11.10 Green Room B Green Room B is approximately 200 sq. ft. and is used as a waiting/staging area in the Radio Production Area. The room will have a wall mounted 65" display with soundbar for both IPTV and Routable feeds. The room will have the ability to be used as a casual recording location via BSP Fiber feed into the Radio production network.

5.12 POST PRODUCTION OPERATIONS

5.12.1 Audio Post-Production Suite Audio Post-Production Suite is approximately 300 sq. ft. ATMOS Compatible Editing Suite. The room will have the ability to perform Sound Design, Sound Effects, Audio Sweetening and Mastering, Audio Editing and Dolby ATMOS encoding for television, radio and web content. The room will include Atmos compatibility desk, recording and editing software, 7.1 + 4 audio monitoring and UHD 85" monitor with router control for viewing.

5.12.2 Audio Post-Production Suite Technical Requirements

- Genelec 7.1+4 speaker system
- Dolby ATMOS compatible console and edit
- Dangerous Music Monitor ST (CFE)
- Equitech Son of Q Balanced power conditioner (CFE)
- Analog and other additional equipment needed for sweetening (CFE)
- Router Control Panel
- Console Layout provides room for additional operator
- ATRs (CFE)
- Clock
- 85" UHD Direct View Video Monitor

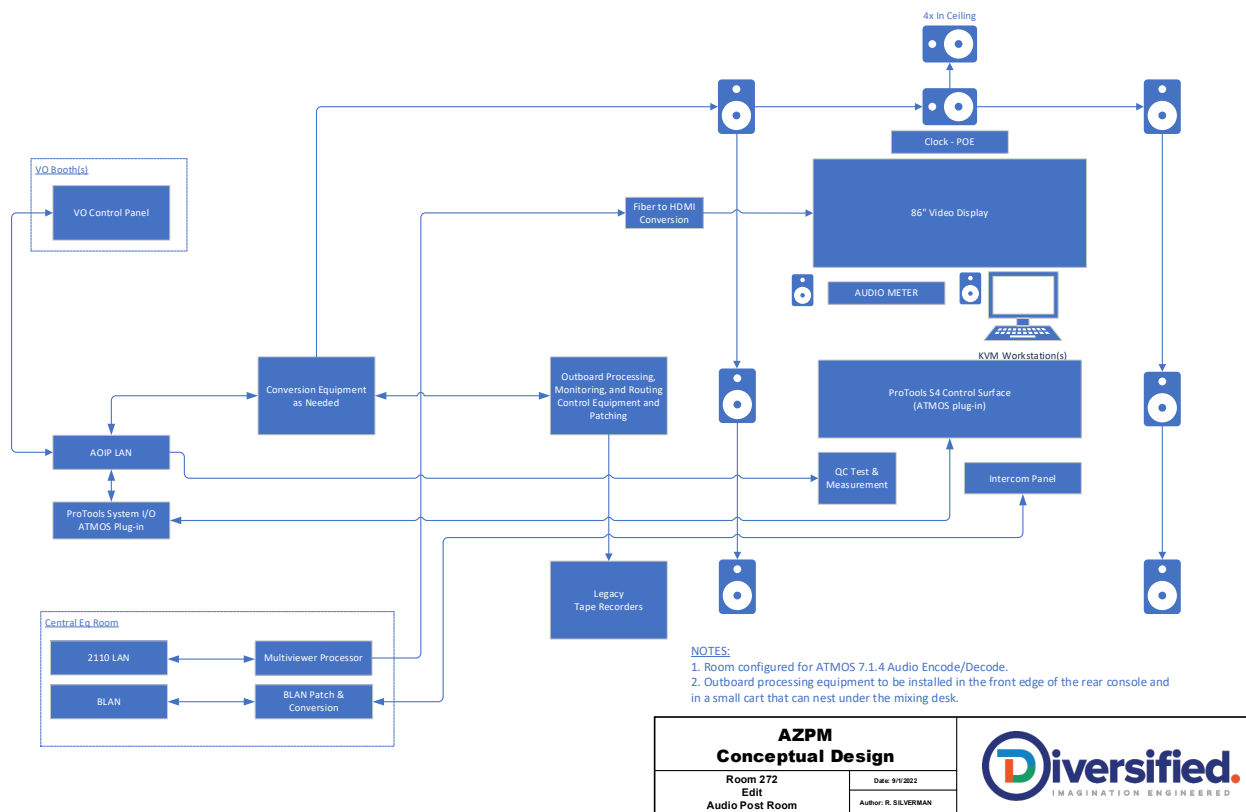


Figure 12 Audio Post-Production Suite

5.12.3 Edit Room 1 Edit Room 1 is approximately 400 sq ft. It is the main video edit room used for online editing, color correction, screening and viewing. The room will consist of a 4K edit console, DaVinci Color Correction surface, Adobe Premiere and Black Magic Resolve editing software with dual edit monitors running on MacOS. A 100" 4K HDR monitor with Genelec 7.1+4 Dolby ATMOS speaker system. There is space for producer and viewing audience.

5.12.4 Edit Room 1 Technical Requirements

- Edit System- Adobe Premiere and Black Magic Resolve work surface
- KVM Dual Monitor
- Advanced QC with broadcast monitor, HDR scope, router panel, intercom
- 100" 4K HDR Monitor
- Audio Monitoring 7.1+4 Genelec Speaker System
- Clock
- Microphone

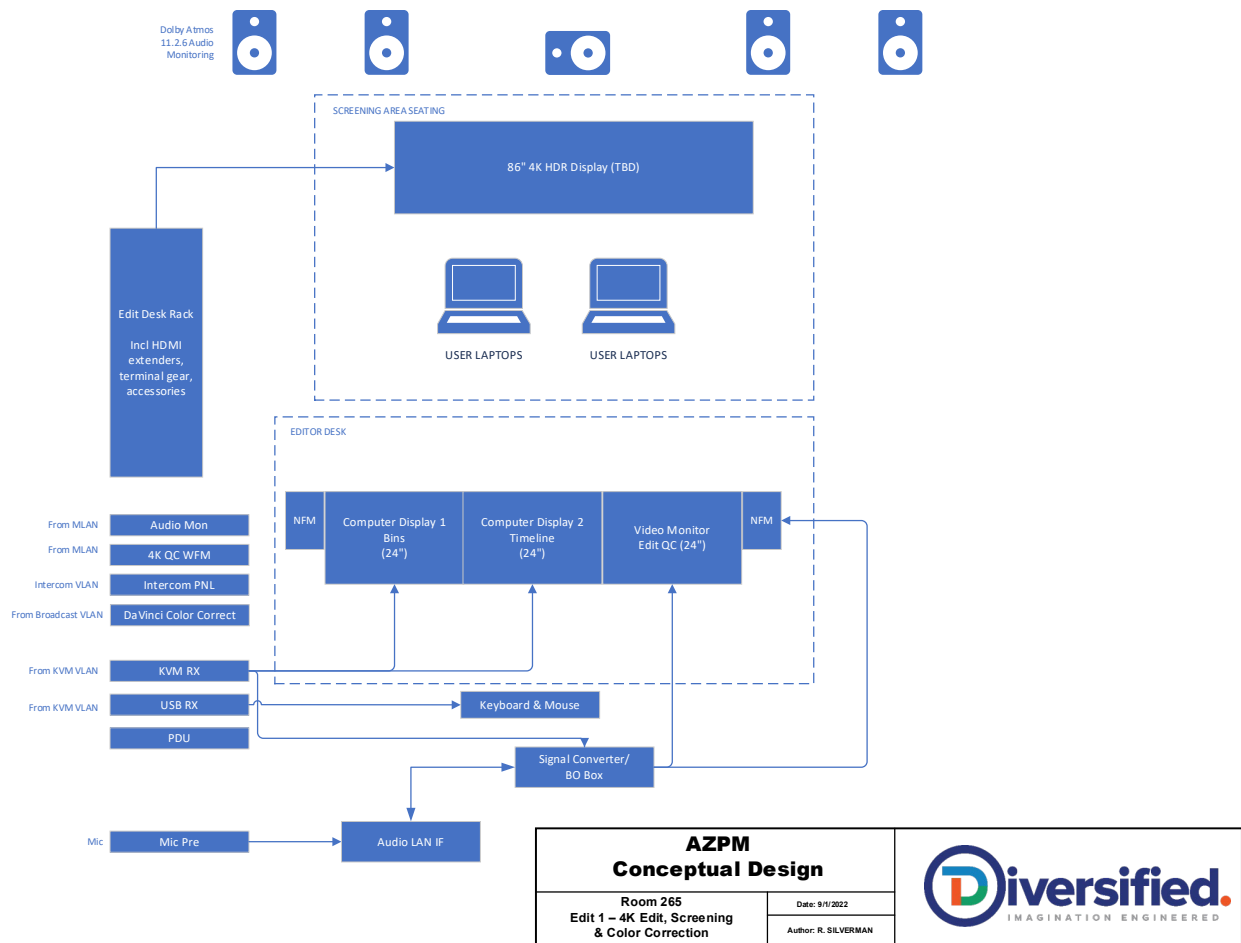


Figure 13 Edit 1 Edit and Color Correction Suite

5.12.5 Post-Production Edit and Ingest Systems Each edit room shall be connected to master KVM system for access to Central Equipment Room resources. Each edit room shall have access to a CPU running Adobe Creative Suite, Adobe Audition and Black Magic Resolve. Network access will be provided to Qumulo shared storage for ingest and edit, MAM storage and on air PMM Aspera share.

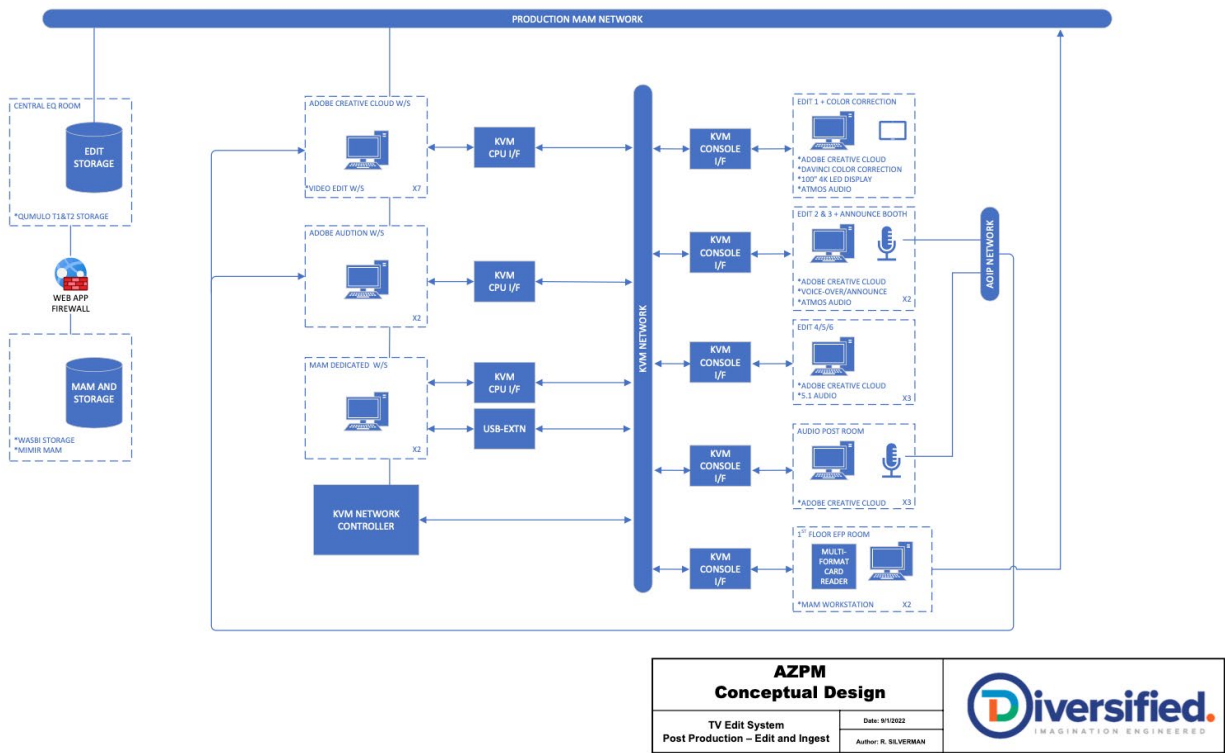


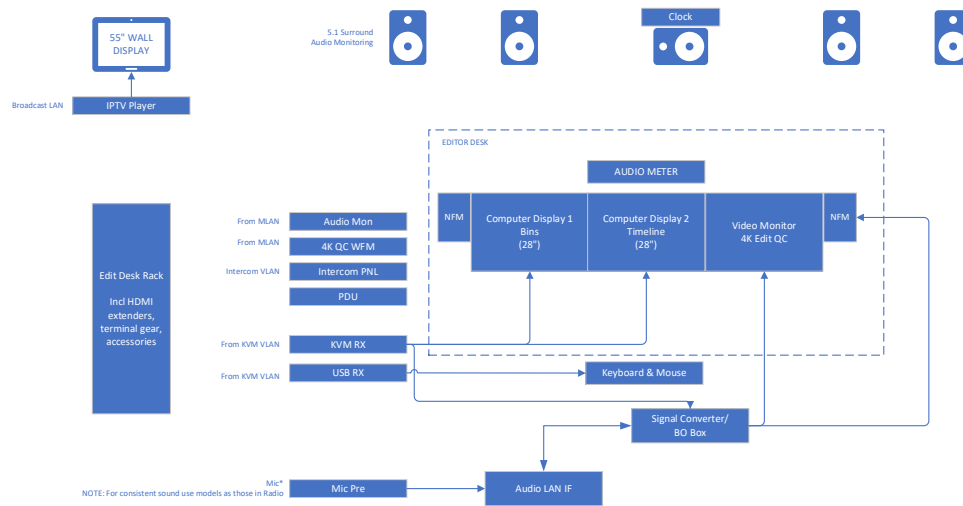
Figure 14 Post-Production Edit and Ingest System

5.12.6 Voice Over and Tracking Edit Rooms 2 & 6 There are two Voice Over and Tracking Edit Room that are 100 sq ft. each. The video edit rooms can also be used as announce booths shared across all edit rooms. The rooms are located on the 2nd floor adjacent to the News and Content Producers positions.

Each room will have a single console with 55" Display on wall for Playback or IPTV. Room Audio monitoring will be Stereo 2.1 (wired for 5.1). Microphone with Preamp and Network interface and announcer console. A QC video monitor, audio monitoring & control and intercom. Editor position to Have Laptop Dock (Network, Power, HDMI,USB)

5.12.7 Voice Over and Tracking Edit Rooms 2 & 6 Technical Requirements

- Edit System Adobe Premiere and Audition
- KVM Dual Monitor
- 55" UHD HDR Monitor with output and IPTV
- Audio Monitoring 2.1 Genelec Speaker System
- Clock
- Microphone



AZPM Conceptual Design	
Room 266-270 Edit 2-6 – 4K Edit and Announce Booth	Date: 9/1/2022 Author: R. SILVERMAN



Figure 15 Edit 2, 6 Edit Rooms

5.12.8 Edit Rooms 3, 4 & 5 Edit Rooms 3, 4, and 5 are approximately 75-100 sq ft each. The video edit rooms located on the 2nd floor adjacent to the News and Content Producers positions. The three rooms will have a single console with a 55" UHD Display on wall for Playback or IPTV. Nearfield QC Video, Audio Monitoring & Control/Comms Producer Positions to Have Laptop Dock. Audio will be stereo 2.1 (wired for 5.1). (Network, Power, HDMI, USB-C)

5.12.9 Edit Rooms 3, 4 & 5 Technical Requirements

- Edit System Black Magic Resolve, Adobe Creative Suite and Audition
- KVM with Dual Monitor
- Access to edit storage and on air.
- 55" UHD HDR Monitor with output and IPTV
- Audio Monitoring 2.1 Genelec Speaker System
- Clock
- Microphone

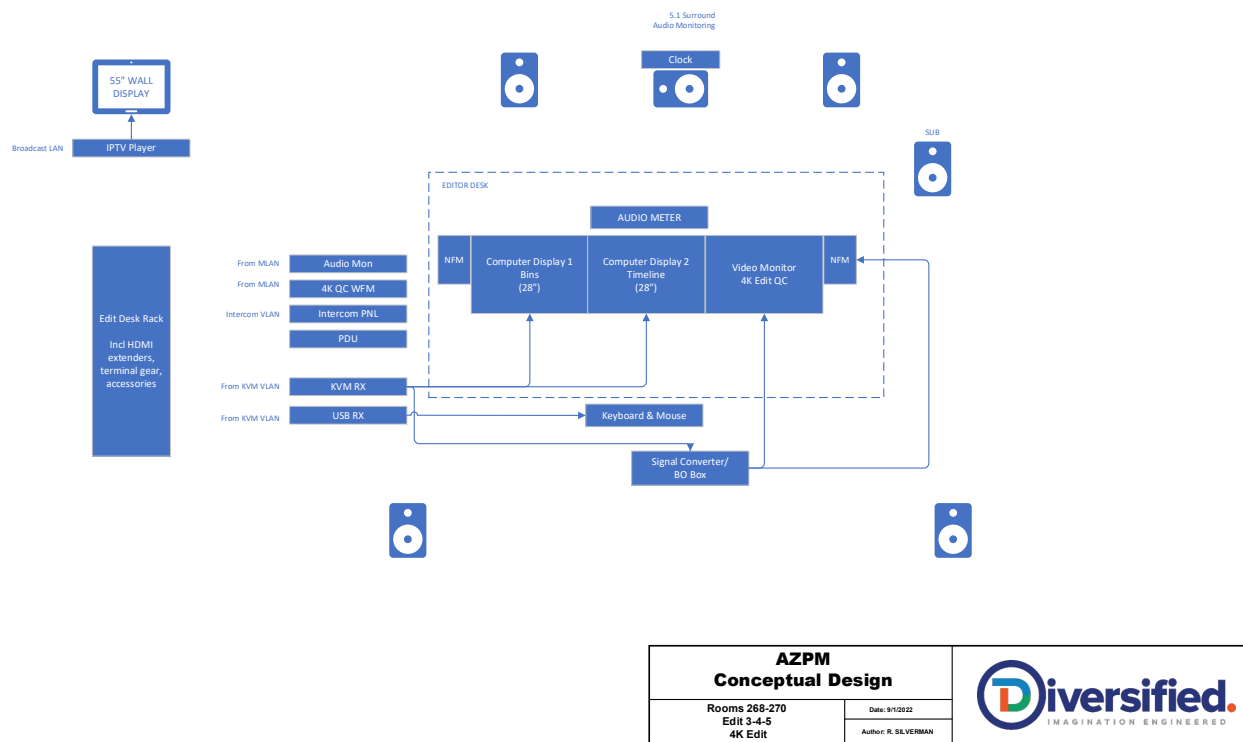


Figure 16 Edit 3, 4, 5 Edit Rooms

5.12.10 Audio Performance Studio A The Radio Performance Studio A is approximately 700 sq. ft. and is used for music performance and studio space. Typically, it will be setup for Jazz & Classical performances and recording. There are two BSP panels for microphones and additional equipment along with two PTZ cameras to capture performances. The facility is routable to either station router or AoIP network. Overhead speakers are provided for talent return audio.

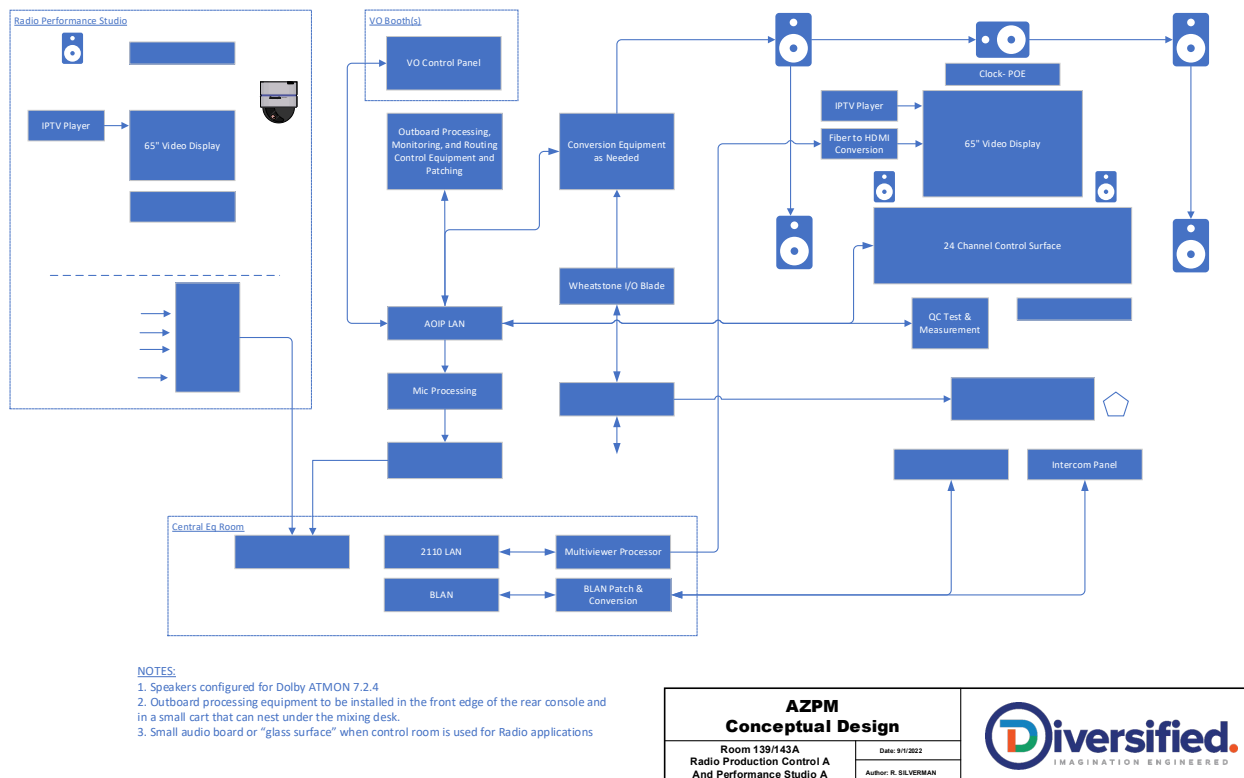


Figure 17 Radio Production Studio and Control Room A

5.12.11 Audio Performance Studio A Control Room Audio Performance Studio A is 376 sq. ft. and the primary control room for Studio A. The audio console will be sufficient to capture multiple sources from Performance Studio A (live performances) and will be same technology used in Studio A and Studio A Audio Control Room. The room will support 5.1 installed speaker system, near field monitoring and wired for future 7.1+4 audio. The furniture shall accommodate audio engineer and additional support for camera operator and/or second engineer.

5.12.12 Audio Performance Studio A Control Room

- Audio console sufficient to capture multiple sources from studio
- 5.1 installed speaker system plus near field monitoring
- QC router control panel and Intercom system
- Two PTZ cameras
- Two BSP Panels
- Professional 65" UHD monitor for playback or IPTV
- Furniture to accommodate main operator and support staff
- PC's, audio/video editing software located at each position
- PTZ control of studio cameras
- Clock
- Output to AoIP Network

5.13 AUDIO/VIDEO ROOMS

5.13.1 Shaded Entry Plaza The 3219 square foot space is open air with overhead covering and will be susceptible to road and parking lot noise, although it is expected to be minimal, special attention should be given to the technology blending in with the structure to not call attention to it.

Day to day listening (distributed listening) will include the lobby area with separate volume control so that during an event, each area could be adjusted separately.

Recommended for the outdoor portion would be sixteen (16) point source loudspeakers that are outdoor IP 54 rated, located in such a way that a portion of them would be used for other events. In the lobby twelve (12) ceiling loudspeakers would work well for that type of application and can be placed around the area to give listeners an ambient experience.

Outdoor Movie Night can utilize some of the point source loudspeakers mentioned above along with six (6) outdoor IP 54 rated subwoofers to add impact for movie enjoyment. Infrastructure should include a future location for a drop-down screen and power/AV connections for a portable projector.

For Event Stage scenarios, power of around 100 amps will be available to support lighting and audio connections that would be brought in for the events. There will be a 'Company Switch' connection so that the rental company can connect their own power distribution units.

5.13.2 Shaded Entry Plaza Technical Specification

- BSP Panels
- IPTV and Router Destination

- Touch Panel Control System
- Audio DSP
- 16 Outdoor Speakers
- 12 Lobby Speakers
- 8 ohm amplifiers

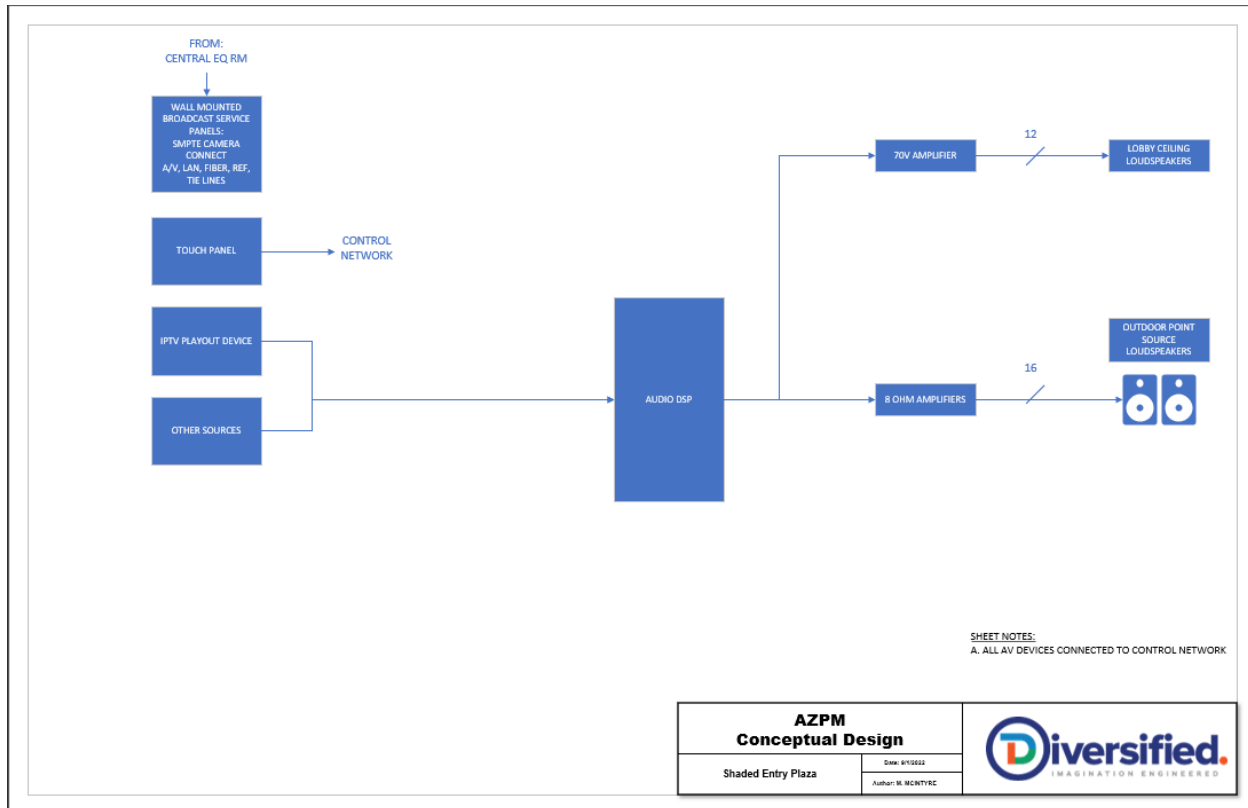


Figure 18 Shaded Entry Plaza

5.13.3 Unisex Rest Room 2nd Floor

Two 55" UHD Monitors on IPTV system at front entrance and back wall.

5.13.4 Newsroom 2nd Floor

There will be four Displays with IPTV players mounted in center of room on ceiling mounted center hub. Estimated 10 Displays with IPTV players mounted at roof line.

5.13.5 Community Studio The Community Studio is located near first floor lobby and is approximately 700 sq. ft. room with movable desks used to support the production of podcasts and other web stream content. The area can also be used as a conference room and booked for meetings by the community.

A Single BSP with IO to the house router is available for some flexibility. The room can also be used to produce live shots. There is a simple lighting system with wall mounted controls. There are two wall-mounted 75" IPTV Displays for Conferencing, Zoom conferencing with ability to start or join Zoom Call using Touch panel controls. A ceiling mic arrays for participants and wireless mics for Zoom Calls and presentations. Also ceiling Loudspeakers for playback from Zoom Call and single 4K PTZ Camera.

5.13.6 Staff Lounge The Staff Lounge is approximately 950 sq. ft. with seating for 45 people. This room will have six (6) 55" displays that will play content from the IPTV System with audio being available from one of the displays in case of an event.

5.13.7 Conference Rooms

5.13.7.1 Small Conference Rooms Small Conference Rooms (X2) Fits 4 Persons at approximately 100 sf. Ft. (Rooms 125, 216) Requirements include 1 x 55" flat panel display to present content from the local participant's device via Wireless or Wired HDMI input. Ability to display AZPM broadcast video or pre-determined playlist. Available as alternative performance spaces. Easy to use and program control interface for AV Systems. Scheduling Panels displaying availability with interface to central system.

5.13.7.2 Medium Conference Room Medium Conference Room Fits 4-7 People with approximately 150 sq. ft. (Room 325) Requirements include 1 x 65" flat panel display to present content from the local participant's device via Wireless or Wired HDMI input and Zoom conferencing ability. Ability to display AZPM broadcast video or pre-determined playlist. Available as alternative performance spaces. Easy to use and program control interface for AV Systems. Scheduling Panels displaying availability with interface to central system. All in one Camera, Microphone, Loudspeaker Bar. Acoustics and lighting treatment to ensure quality experience for local and remote participants.

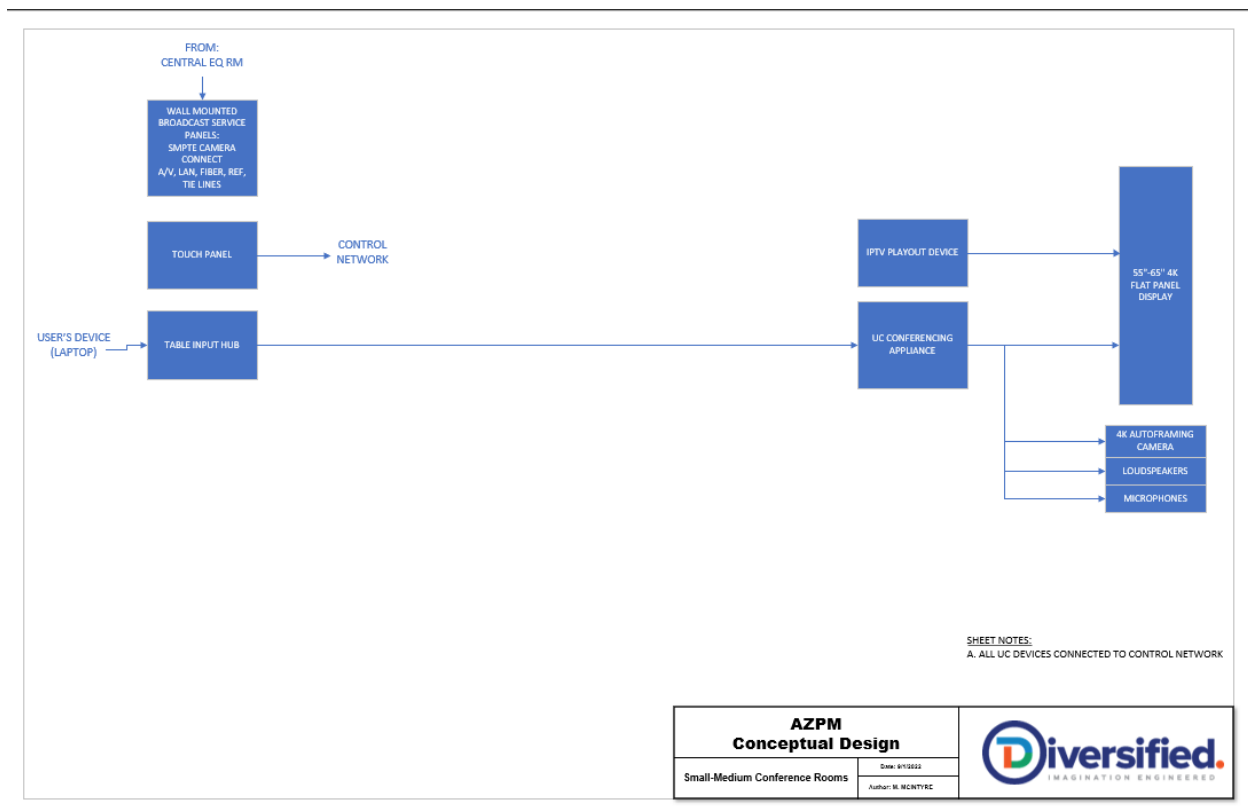


Figure 19 Small/Medium Conference Room

5.13.7.3 Large Conference Rooms Large Conference Rooms (X2) Fits 8-14 People with approximately 250-300 sq. ft. (Room 201, 252) Requirements include 1 x 75" flat panel display to present content from the local participant's device

via Wireless or Wired HDMI input and Zoom conferencing ability. Ability to display AZPM broadcast video or pre-determined playlist. Available as alternative performance spaces. Easy to use and program control interface for AV Systems. Scheduling Panels displaying availability with interface to central system. All in one Camera, Microphone, Loudspeaker Bar. Dual displays may be needed, depending on the shape of the room and the table.

5.13.7.4 Extra Large Conference Room Extra Large Conference Room Fits 15+ People with approximately 450 sq. ft. (Room 250) Requirements include 1 x 86" flat panel display to present content from the local participant's device via Wireless or Wired HDMI input and Zoom conferencing ability. Ability to display AZPM broadcast video or pre-determined playlist. Available as alternative performance spaces. Easy to use and program control interface for AV Systems. Scheduling Panels displaying availability with interface to central system. All in one Camera, Microphone, Loudspeaker Bar. Dual displays may be needed, depending on the shape of the room and the table. Additional loudspeakers, microphones and cameras needed. Acoustics and lighting treatment to ensure quality experience for local and remote participants.

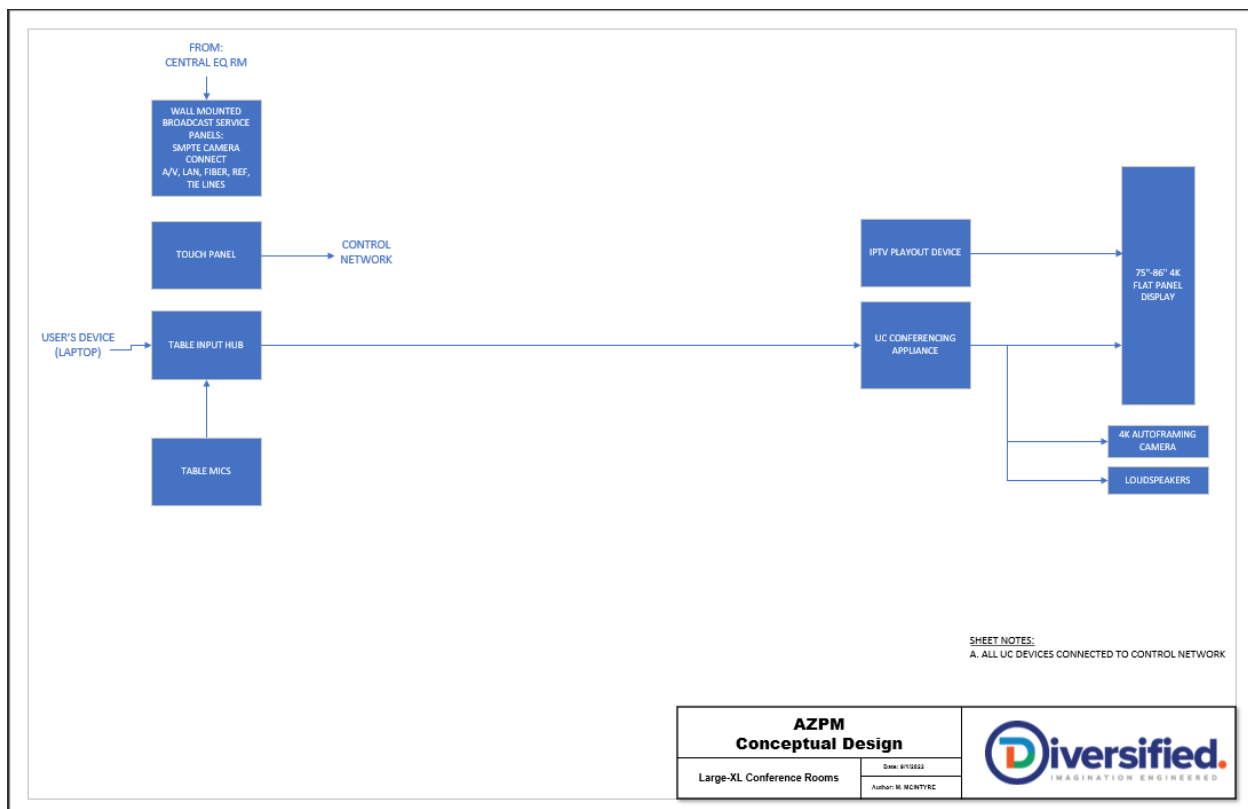


Figure 20 Large/Extra Large Conference Room

5.13.7.5 Digital Conference Center DCC The Digital Conference Center is a 1585 square feet of space which can double as board room and rentable for the public, positioned as premier meeting and event space with aesthetics and acoustics built in as a top priority. The acoustics of the space shall ensure the conversation, either amplified or not, is clear and unencumbered by unwanted reverberation. Fixed furniture will be used as required.

5.13.7.6 The space will include a method to control ambient light from windows, specialized lighting fixtures to frame the local participants for in-person meetings and video calls.

A focal point will be the 13.5' x 8' LED Video Wall to allow most content to be seen well from farthest viewer at the table. Also included will be eight locations for content sharing strategically located around the table for those to share HDMI content from their own devices. Four (4), 4k Video Cameras, two (2) on each side of the video wall, for participants closest to the video wall, plus two (2) for those seated further away. Individual displays shall be integrated into furniture, coordinated with 4k cameras to allow local participants & remote participants to engaging in eye contact.

For audio Individual microphones located at table that can be muted, along with high quality wireless lavalier microphones with auxiliary room speakers. Column array loudspeakers and subwoofers mounted on the front wall near the video wall will provide for good listening environment.

System control shall be provided via touch panels with user-friendly interfaces. Recommendation is to utilize devices that allow pro-active monitoring and remote support.

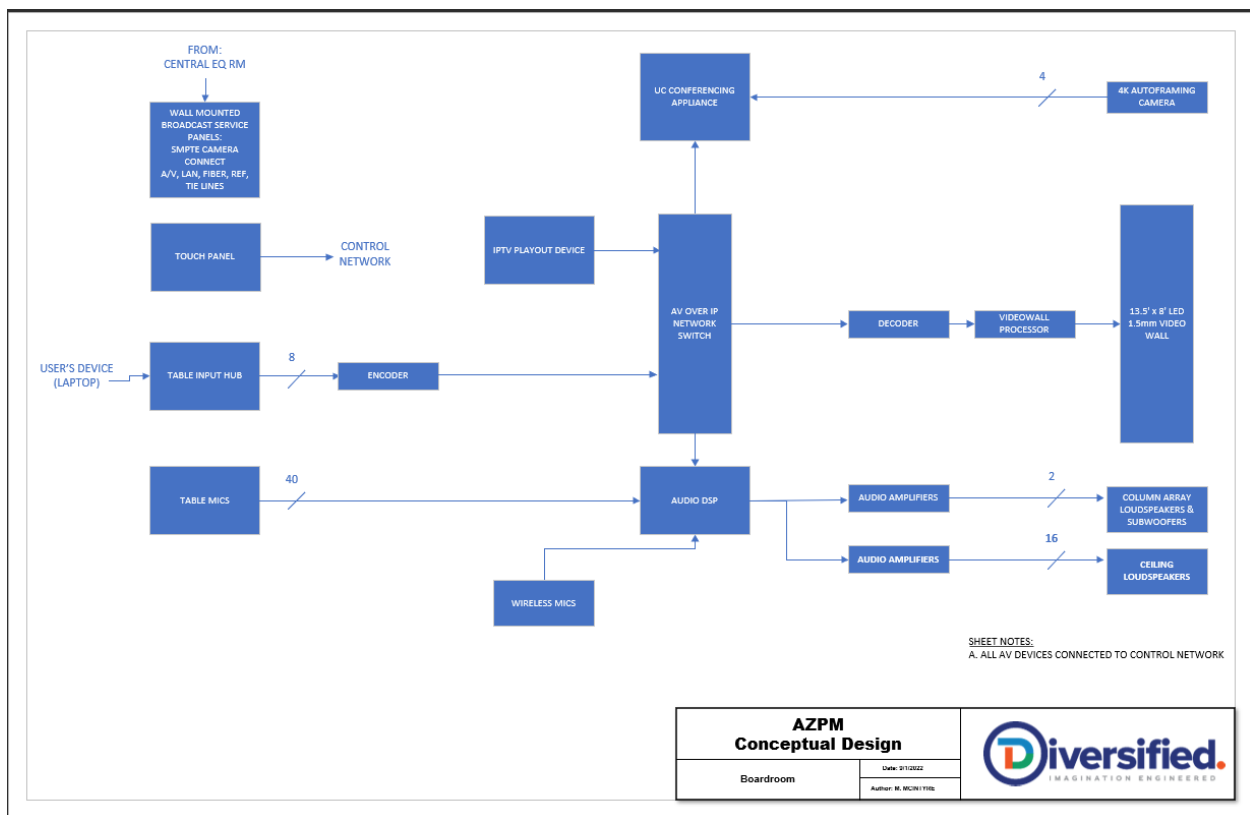


Figure 21 Digital Conference Center

5.14 TECHNICAL SERVICES/ENGINEERING

5.14.1 Technical Services Technical Services is approximately 650 sq ft. work room for engineers responsible for the engineering and maintenance of the TV and Radio systems. The room is centrally located between both the Radio and TV Divisions. Three

Equipment Racks that will have fan-based equipment needed in nearby rooms, a QC station used in for maintenance and troubleshooting. The racks will also be used for staging, configuring and repairing sever based systems, so should have adequate power, data and access to KVM system to interface with.

The room will have a rack mounted hardware that is capable of 12G signal and Audio over IP decoding. Any KVM Station will be able to remotely connect to the 2110 QC monitor in the CER to record, capture and troubleshoot 2110 streams. The room will also have 208VAC 3 Phase power for testing and proofing small transmitters. Four cubicles and work benches will have tie lines to the racks within the room, and the racks will have tie lines and BSP connected to the Central Equipment Room.

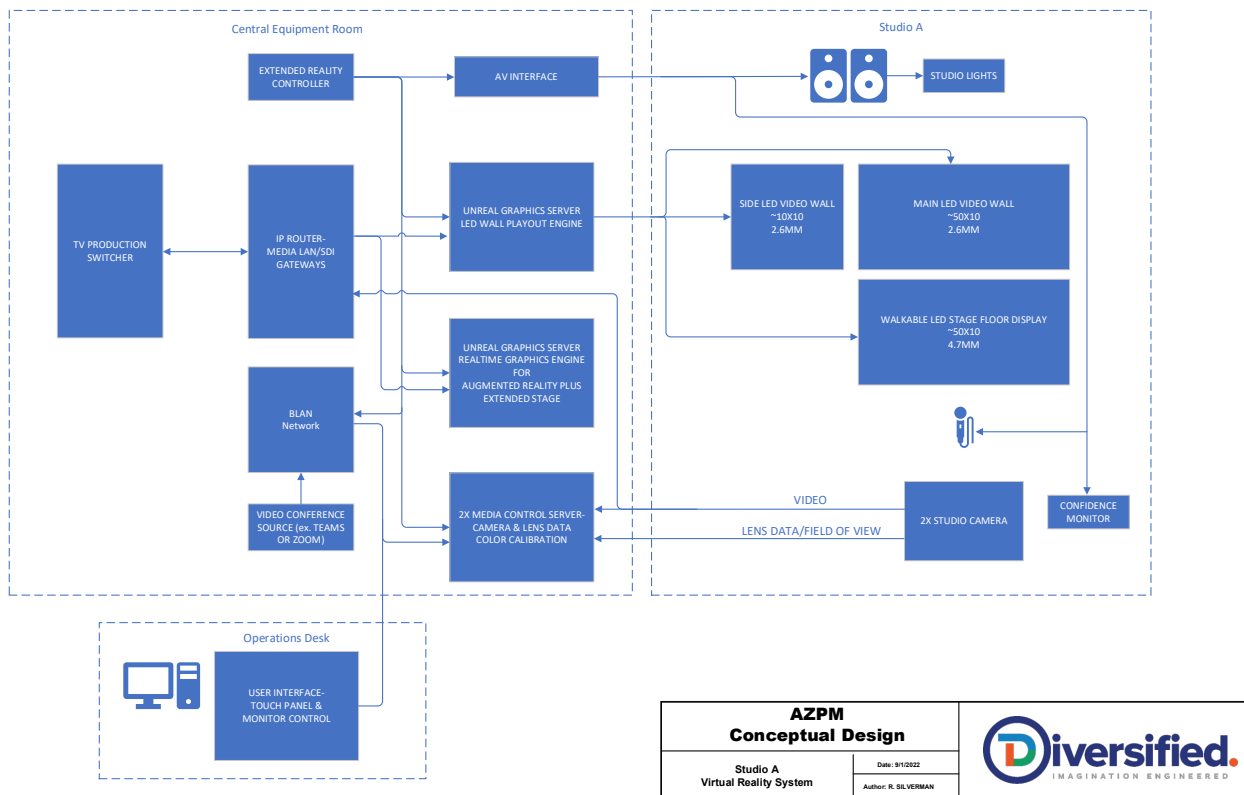


Figure 22 Technical Services

5.15 INSTALLATION, PROOF OF PERFORMANCE & TRAINING Contractor is responsible for all broadcast and AV installation, user acceptance testing as defined in section V and providing all factory and technical training. Instructions: Contractor must respond to each of the following statements. Specifications listed are minimum conditions that must be met in order for a Contractor to qualify for the award.

“YES” response means the Contractor guarantees they can meet this condition.

“NO” response means the Contractor cannot meet this condition and will not be considered.

“NO & PROVIDE ALTERNATIVE” responses should be used only with a narrative response in the NOTES/COMMENTS section explaining in detail any deviation from the Contractor’s ability to meet the condition, and an explanation of how this would be determined to be an acceptable alternative to meeting the condition. Alternatives must be detailed in such a way that allows such deviations to be fully evaluated. AZPM shall determine at its sole discretion whether or not the Contractor’s alternative is an acceptable alternative.

Read these specifications carefully. Any and all exceptions to these specifications must be written on or attached to solicitation response. Any noncompliance may void your proposal. Non-compliance to any single specification can void your proposal.

It is the responsibility of Vendor to obtain information and clarifications as provided below. The State of Arizona is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this solicitation by any Contractor.

No interpretation related to the meaning of solicitation specifications or other pre-proposal documents will be made orally to any Vendor. Any solicitation interpretation must be put in writing by the Vendor to: **TBD**

5.15.1 Vendor shall supply, install, commission and document for Arizona Public Media (AZPM) all technical systems for a new purpose-built radio and television facility as described in this section.

YES NO NO & PROVIDE ALTERNATIVE

5.15.2 Vendor shall provide detailed processes they will use to facilitate project plan including specific software for project management, CAD design, change management and communication.

YES NO NO & PROVIDE ALTERNATIVE

5.15.3 Vendor shall provide examples of training and testing methodologies (UAT).

YES NO NO & PROVIDE ALTERNATIVE

5.15.4 Vendor shall provide three references for similar projects.

YES NO NO & PROVIDE ALTERNATIVE

5.15.5 Vendor shall provide resource allocation that can meet AZPM timeline for a mid 2025 completion.

YES NO NO & PROVIDE ALTERNATIVE

5.15.6 Vendor shall provide equipment that meets AZPM requirements but understands AZPM has final decision for all technology.

YES NO NO & PROVIDE ALTERNATIVE

5.15.7 Vendor shall demonstrate experience in radio, television and IP technology.

YES NO NO & PROVIDE ALTERNATIVE

5.15.8 Vendor to supply product quality that meets specifications and be consistent for the term of the contract. All materials must be of first quality, under standard production by the manufacturer and be of standard design, complete as regularly advertised and marketed and be of proven performance.

YES NO NO & PROVIDE ALTERNATIVE

5.15.9 A guarantee of satisfactory performance by the Vendor and meeting delivery dates are considered an integral part of the purchase contract resulting from this proposal invitation. Warranty period of 2 years shall be included with proposal.

YES NO NO & PROVIDE ALTERNATIVE

- 5.16 SUPPLIED EQUIPMENT** Vendor to supply products that are to be fully guaranteed and may be returned for full credit or replacement for any reason during the initial warranty period with no additional charges for shipping or restocking. Please provide warranty period and cost to extend.
- 5.17 COST OF OWNERSHIP** Vendor to provide cost of ownership for proposed technology. Product must provide efficiency during operation to minimize environmental operating costs. Please provide power consumption and heatload requirements for major proposed systems.
- 5.18 VENDOR EXPERIENCE** Please provide pertinent information regarding vendor's background, history and experience in broadcast radio and television transmission systems and related industry.
- 5.19 REVISIONS** In the event any product is discontinued or replaced upon mutual consent prior to delivery of the goods, the State reserves the right to amend the purchase order to include the alternate product.
- 5.20 DELIVERY** Deliveries shall be coordinated through AZPM Technical Contact Chris Homer, Telephone 520 339-2128, email chomer@azpm.org and delivered to the following address: (TBD).
- 5.21 QUALITY**
- 5.21.1** All product quality must meet specifications and be consistent for the term of the contract. All materials must be of first quality, under standard production by the manufacturer and be of standard design, complete as regularly advertised and marketed and be of proven performance.
- 5.21.2** A guarantee of satisfactory performance by the contractor and meeting delivery dates are considered an integral part of the purchase contract resulting from this proposal invitation.
- 5.21.3** Products are to be fully guaranteed and may be returned for full credit or replacement for any reason during the initial warranty period with no additional charges for shipping or restocking.
- 5.22 Term of Agreement.** (2 years after acceptance)
- 5.23 Specifications: Brand Name or Acceptable Alternate** Where in these specifications reference is made to materials, trade names, catalog numbers or articles of certain manufacture, it is done for the sole purpose of establishing a basis of a comparable standard of quality, performance, characteristics desired and is not intended to limit or restrict competition. It shall be understood that such method of specification description is not intended to exclude other processes, similar designs, or kinds of materials, but is intended solely as a means of establishing a standard of comparison to be utilized for solicitation evaluation purposes. Other material or product may be used, if in the sole opinion of the University, they are equal in durability, quality and of a design in harmony with the intent of these specifications. Such other material or product which is substantially equivalent to those specific brand(s) specified shall qualify for solicitation evaluation and award consideration by the University. The University reserves the right to reject any substitute material or product which, in its opinion, does not meet the standard of quality established by reference in these specifications and is not considered an acceptable alternate for the intended use and purpose. The burden of proof

as to meeting the requirements of these specifications shall be the responsibility of the submitting vendor. Such proposer(s) who is offering any material or product other than the item(s) specified herein must submit with their solicitation response catalogs cuts and detailed specifications which will completely describe the item(s) on which they are offering for an acceptable alternate determination by the University. Where the proposer proposes to substitute a material or product which is not known to the University, he/she shall be prepared to submit samples on request for the University's inspection and evaluation. The cost of transportation, both ways, of such samples shall be borne by the submitting proposer.

5.24 Furnish and Install. The items specified in this solicitation will be provided on a furnished and installed basis. The Successful Vendor shall have the complete responsibility for the items or system until it is in place and working. Any special installation preparation and requirements must be submitted to the University. All transportation and coordination arrangements will be the responsibility of the Successful Vendor. Delivery of equipment will be coordinated so that items or system will be delivered directly to the installation site. This effort will minimize risk of damage and avoid double handling.

5.25 Accessibility.

5.25.1 Address compliance with WCAG 2.1 AA and UA Rehabilitation Act Section 508.

a. Address accessibility for both user and administrator/staff functionality.

5.25.2 Provide your VPAT for accessibility (Voluntary Product Accessibility Template) or your WCAG 2.1 Conformance Statement. Templates to be completed can be provided upon request.

a. Include specific information regarding the accessibility of platform, keyboard navigation, and screen reader accessibility.

5.25.3 Has your product been verified for accessibility with assistive technologies for all functionality? If so, was verification through in-house testing or via third tester/vendor?

a. Please list OS, assistive technologies and applications (browsers) tested, including version numbers.

5.25.4 Discuss where and how accessibility is included in your product development process.

5.25.5 If you are designing digital content such as email, Web-based or Social Media content, discuss your efforts to ensure accessibility.

5.26 Detailed Pricing. Vendor, "Contractor", shall supply detailed pricing for all goods and services separated by the following criteria;

- Design and Documentation
- Installation
- Material (cables, connectors, patchbays)
- Equipment (capital equipment is defined as any asset over \$5,000)
- Logistics (shipping, staging, special equipment)
- Commission & Testing (UAT and FAT)
- Handoff and support (2 years)

5.27 Method of Payment & Discount for Early Payment. The University's preferred method of payment is via credit card. The University would issue a Purchase Order and upon receipt of goods or services, pay subsequent invoices by credit card.

Will you accept payment via credit card? Yes _____ No _____

Do you offer an early payment discount? Yes _____ No _____

If yes, what is your offer? _____ % if paid within _____ days after the University receives a proper, accurate and uncontested Invoice for Payment.

If payment via credit card is accepted and an early payment discount is offered, would the University receive the discount if paying by credit card? Yes _____ No _____

5.28 References. Vendor to provide **five (5)** customer references, from comparable institutions for similar products or services specified in this RFP, including the company names, contact names, telephone numbers and emails of the contact persons.

6.0 CERTIFICATIONS AND FORMS (Vendor to complete and return with proposal)

(Remove any forms not required in the RFP and re-number the required forms accordingly)

6.1 Certification of Proposal

6.2 Legal Workers Certification (Required for all Contracts for: Services; Construction or Maintenance of Structure, Building or Transportation Facility; or Improvements to Real Property costing \$100K and over)

6.3 Certification Regarding Debarment, Suspension, Proposed Debarment and other Responsibility Matters (Mar 1996 as amended) (Applicable to Federal Grants and Contracts >\$30k)

6.4 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (Apr 1991 as amended) (Applicable to Federal Grants and Contracts >\$150k)

6.5 Proposal Bond

6.6 Performance Bond

6.7 Payment Bond

Certification of Proposal (vendor to complete and return with proposal)

Explanation. This certification attests to the vendor's awareness and agreement to the content of this RFP and all accompanying provisions contained herein.

Action. Vendor is to ensure that the following certificate is duly completed and correctly executed by an authorized officer of your company.

This proposal is submitted in response to Request for Proposals # L192320 issued by the University of Arizona. The undersigned, as a duly authorized officer, hereby certifies that _____ (Vendor Name), located at _____ (address), agrees to be bound by the content of this proposal and agrees to comply with the terms, conditions and provisions of the referenced Request for Proposals (RFP) and any addenda thereto in the event of an award. Exceptions are to be noted as stated in the RFP. The proposal shall remain in effect for a period of ninety-(90) calendar days as of the Due Date for responses to the RFP.

The undersigned certifies that to the best of his/her knowledge: (check one)

☐ There is no officer or employee of the University of Arizona who has, or whose relative has, a substantial interest in any Contract award subsequent to this proposal.

☐ The names of any and all public officers or employees of the University of Arizona who have, or who's relative has, a substantial interest in any Contract award subsequent to this proposal are identified by name as part of this submittal.

The undersigned further certifies that their firm (check one) ☐ IS **or** ☐ IS NOT currently debarred, suspended, or proposed for debarment by any federal entity. The undersigned agrees to notify the University of any change in this status, should one occur, until such time as an award has been made under this procurement action.

In accordance with [Purchasing Policy 4.3](#) – Small Business Utilization Program, the Undersigned further certifies that your business (check the appropriate areas) ☐ does **or** ☐ does not meet the Federal (S.B.A.) Small Business definition (FAR 19.001) and size standards (FAR 19.102). If it does, please “CHECK” one of the following: ☐ Small Business ☐ Small Disadvantaged ☐ Small Business Women-Owned ☐ Women-Owned Disadvantaged ☐ Veteran owned ☐ HUB Zone ☐ Disabled Veteran Owned ☐ Alaska Native Corp. ☐ Historically Black Colleges and Universities and Minority Institutions

[Arizona Small Business](#) (has less than 100 fulltime employees, including employees employed in any subsidiary or affiliated corporation) please “CHECK one of the following: ☐ AZ. Small Business ☐ AZ. Women Owned ☐ AZ Disadvantaged ☐ AZ Disadvantaged Women-owned.

The undersigned further certifies that as a duly authorized officer, is authorized to negotiate in good faith on behalf of this firm for purposes of this Request for Proposals.

Name: _____ Title: _____

Signature: _____ Date: _____ Email: _____

F.E.I.N: _____

RFP Email and Notification Contact: _____

6.1. LEGAL WORKER CERTIFICATION

Required for all Contracts for: Services; Construction or Maintenance of any Structure, Building or Transportation Facility; or Improvements to Real Property costing \$100K and over.

Date: _____

Procurement and Contracting Services
University of Arizona
PO Box 210300
Tucson, AZ 85721-0300

As required by Arizona Revised Statutes §41-4401 the University is prohibited after September 30, 2008 from awarding a contract to any contractor who fails, or whose subcontractors fail, to comply with Arizona Revised Statutes § 23-214-A. The undersigned entity warrants that it complies fully with all federal immigration laws and regulations that relate to its employees, that it shall verify, through the employment verification pilot program as jointly administered by the U.S. Department of Homeland Security and the Social Security Administration or any of its successor programs, the employment eligibility of each employee hired after December 31, 2007, and that it shall require its subcontractors to provide the same warranties to the below entity.

The undersigned acknowledges that a breach of this warranty by the below entity or by any subcontractor(s) under any Contract resulting from this solicitation shall be deemed a material breach of the Contract and is grounds for penalties, including termination of the Contract by the University. The University retains the right to inspect the records of the below entity, subcontractor(s) and employee(s) who perform work under the Contract, and to conduct random verification of the employment records of the below entity and any subcontractor(s) who perform work under the Contract, to ensure that the below entity and each subcontractor is complying with the warranties set forth above. Contractor shall be responsible for all costs associated with compliance with such programs.

(Firm)

(Address)

(Signature Required)

(Phone)

(Print Name)

(Fax)

(Print Title)

(Federal Taxpayer ID Number)

(November 3, 2009)

6.2. CERTIFICATION REGARDING DEBARMENT SUSPENSION, PROPOSED DEBARMENT AND OTHER RESPONSIBILITY MATTERS (MAR 1996)

In accordance with FAR 52.209.5, complete the following certification regarding debarment suspension, proposed debarment and other responsibility matters and **return the completed certification with your solicitation response**. (Applicable to Federal Contracts and Grants >\$30k)

(a) Certification Regarding Debarment Suspension, Proposed Debarment, and Other Responsibility Matters (Mar 1996 as amended)

- (1) The Offeror certifies, to the best of its knowledge and belief, that
 - (i) The Offeror and/or any of its Principals
 - (A) **Are** ☐ **Are Not** ☐ presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency,
 - (B) **Have** ☐ **Have Not** ☐, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract, violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and
 - (C) **Are** ☐ **Are Not** ☐ presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision.
 - (ii) The Offeror **Has** ☐ **Has Not** ☐, within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.
- (2) "Principals", for the purposes of this certification, means officers; directors, owners, partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment and similar positions). This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.
- (b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- (c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.
- (d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- (e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government the Contracting Officer may terminate the contract resulting from this solicitation for default. (End of Provision)

(NAME OF FIRM)

(ADDRESS, CITY, STATE, ZIP)

(SIGNATURE)

(DATE)

(PRINT OR TYPE - NAME AND TITLE)

**6.3. CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN
FEDERAL TRANSACTIONS (APR 1991 as amended)**

In accordance with FAR 52.203-11 and FAR 52.203-12 entitled "Limitation on Payments to Influence Certain Federal Transactions (Jun 1997 as amended), the following certification and disclosure regarding these FAR provisions are hereby incorporated and made a part of this bid/proposal solicitation requirement. (Applicable to Federal Grants and Contracts >\$150k)

- (a) The definitions and prohibitions contained in the clause, at FAR 52.203.12, Limitation on Payments to Influence Certain Federal Transactions, included in this solicitation, are hereby incorporated by reference in paragraph (b) of this certification.
- (b) The Offeror, **by signing its offer**, hereby certifies to the best of his or her knowledge and belief that on or after December 23, 1989
 - (1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement;
 - (2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the Offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and
 - (3) He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$ 100,000 shall certify and disclose accordingly
- (c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

(NAME OF FIRM)

(STREET ADDRESS)

(SIGNATURE)

(MAILING ADDRESS)

(TYPED OR PRINTED NAME)

(CITY, STATE, ZIP)

(DATE)

Annex A Station Router Sources

Item	Source	Type	Format	Cable	Level 1	MVP	IPTV
1	CAM-1 (ST-A)	PED	UHD	SMPTE 311	UHD	YES	NO
2	CAM-2 (ST-A)	PED	UHD	AMPTE 311	UHD	YES	NO
3	CAM-3 (ST-A)	PED	UHD	SMPTE 311	UHD	YES	NO
4	CAM-4 (ST-A)	JIB	UHD	SMPTE 311	UHD	YES	NO
5	CAM-5 (ST-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
6	CAM-6 (ST-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
7	CAM-7 (ST-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
8	CAM-8 (ST-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
9	CAM-9 (ST-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
10	CAM-10 (ST-B)	PED	UHD	SMPTE 311	UHD	YES	NO
11	CAM-11 (ST-B)	PED	UHD	SMPTE 311	UHD	YES	NO
12	CAM-12 (ST-B)	PED	UHD	SMPTE 311	UHD	YES	NO
13	CAM-13 (ST-B)	PTZ	UHD	SMPTE 311	UHD	YES	NO
14	CAM-14 (ST-B)	PTZ	UHD	SMPTE 311	UHD	YES	NO
15	CAM-15 (Perf-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
16	CAM-16 (Perf-A)	PTZ	UHD	SMPTE 311	UHD	YES	NO
17	CAM-17 (ST-RadC)	PTZ	UHD	SMPTE 311	UHD	YES	NO
18	CAM-18 (ST-RadC)	PTZ	UHD	SMPTE 311	UHD	YES	NO
19	CAM-19 (ST-RadB)	PTZ	UHD	SMPTE 311	UHD	YES	NO
20	CAM-20 (ST-RadB)	PTZ	UHD	SMPTE 311	UHD	YES	NO
21	CAM-20 (PODCST)	PTZ	UHD	SMPTE 311	UHD	YES	NO
22	CAM-21 (PODCST)	PTZ	UHD	SMPTE 311	UHD	YES	NO
23	Community Studio	PTZ	UHD	SMPTE 311	UHD	YES	NO
24	VIRTUAL SET 1	SYSTEM	UHD	SMPTE 2082	UHD	YES	NO
25	VIRTUAL SET 2	SYSTEM	UHD	SMPTE 2082	UHD	YES	NO
26	VIRTUAL SET 3	SYSTEM	UHD	SMPTE 2082	UHD	YES	NO
27	CG-1 Fill	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
28	CG-1 Key	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
29	CG-2 Fill	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
30	CG-2 Key	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
31	CG-3 Fill	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
32	CG-3 Key	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
33	CG-4 Fill	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
34	CG-4 Key	GRAPHICS	UHD	SMPTE 2082	UHD	YES	NO
35	SERVER A	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
36	SERVER B	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
37	SERVER C	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
38	SERVER D	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
39	SERVER E	Play/Record	UHD	SMPTE 2082	UHD	YES	NO

40	SERVER F	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
41	SERVER G	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
42	SERVER H	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
43	SERVER I	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
44	SERVER J	Play/Record	UHD	SMPTE 2082	UHD	YES	NO
45	EDIT 1	I/O	UHD	SMPTE 2082	UHD	YES	YES
46	EDIT 2	I/O	UHD	SMPTE 2082	UHD	YES	NO
47	EDIT 3	I/O	UHD	SMPTE 2082	UHD	YES	NO
48	EDIT 4	I/O	UHD	SMPTE 2082	UHD	YES	NO
49	EDIT 5	I/O	UHD	SMPTE 2082	UHD	YES	NO
50	EDIT 6	I/O	UHD	SMPTE 2082	UHD	YES	NO
51	AUDIO STUDIO	STUDIO	UHD	SMPTE 2082	UHD	YES	YES
52	AUDIO SWEETNING	POST PROD	UHD	SMPTE 2082	UHD	YES	YES
53	F/S-1	CONVERTER	UHD	SMPTE 2082	UHD	YES	YES
54	F/S-2	CONVERTER	UHD	SMPTE 2082	UHD	YES	YES
55	F/S-3	CONVERTER	UHD	SMPTE 2082	UHD	YES	YES
56	BSP-REM 1	Type A	UHD	SMPTE 2082	UHD	YES	NO
57	BSP-REM 2	Type A	UHD	SMPTE 2082	UHD	YES	NO
58	BSP-REM 3	Type A	UHD	SMPTE 2082	UHD	YES	NO
59	BSP-REM 4	Type B	UHD	SMPTE 2082	UHD	YES	NO
60	BSP-REM 5	Type A	UHD	SMPTE 2082	UHD	YES	NO
61	BSP-REM 6	Type A	UHD	SMPTE 2082	UHD	YES	NO
62	BSP-REM 7	Type A	UHD	SMPTE 2082	UHD	YES	NO
63	BSP-REM 8	Type A	UHD	SMPTE 2082	UHD	YES	NO
64	BSP-REM 9	Type C	UHD	SMPTE 2082	UHD	YES	NO
65	BSP-REM 10	Type C	UHD	SMPTE 2082	UHD	YES	NO
66	BSP-REM 11	Type C	UHD	SMPTE 2082	UHD	YES	NO
67	BSP-REM 12	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
68	BSP-REM 13	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
69	BSP-REM 14	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
70	BSP-REM 15	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
71	BSP-REM 16	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
72	BSP-REM 17	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
73	BSP-REM 18	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
74	BSP-REM 19	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
75	BSP-REM 20	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
76	BSP-REM 21	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
77	BSP-REM 22	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
78	BSP-REM 23	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
79	BSP-REM 24	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
80	BSP-REM 25	Type-Fiber	UHD	SMPTE 2082	UHD	YES	NO
81	CTL-A ME1 PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
82	CTL-A ME1 PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
83	CTL-A ME2 PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO

84	CTL-A ME2 PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
85	CTL-A PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
86	CTL-A PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	YES
87	CTL-B ME1 PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
88	CTL-B ME1 PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
89	CTL B ME2 PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
90	CTL-B ME2 PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
91	CTL-B PVW	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
92	CTL-B PGM	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	YES
93	CTL-A AUX 1	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
94	CTL-A AUX 2	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
95	CTL-A AUX 3	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
96	CTL-A AUX 4	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
97	CTL-A AUX 5	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
98	CTL-B AUX 1	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
99	CTL-B AUX 2	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
100	CTL-B AUX 3	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
101	CTL-B AUX 4	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
102	CTL-B AUX 5	CONTROL ROOM	UHD	SMPTE 2082	UHD	YES	NO
103	KUAT SAF OUT-1	ASI	HD/SD	SMPTE 305	ASI	NO	NO
104	KUAT SAF OUT-2	ASI	HD/SD	SMPTE 305	ASI	NO	NO
105	KUAS SAF OUT-1	ASI	HD/SD	SMPTE 305	ASI	NO	NO
106	KUAS SAF OUT-2	ASI	HD/SD	SMPTE 424	ASI	NO	NO
107	SAT-1	SATELLITE	HD/SD	SMPTE 424	UHD	YES	YES
108	SAT-2	SATELLITE	HD/SD	SMPTE 424	UHD	YES	YES
109	SAT-3	SATELLITE	HD/SD	SMPTE 424	UHD	YES	YES
110	SAT-4	SATELLITE	HD/SD	SMPTE 424	UHD	YES	YES
111	SAT-5	SATELLITE	HD/SD	SMPTE 424	UHD	YES	YES
112	FIBER IN 1	FIBER	HD/SD	SMPTE 424	UHD	YES	YES
113	FIBER IN 2	FIBER	HD/SD	SMPTE 424	UHD	YES	YES

114	FIBER IN 3	FIBER	HD/SD	SMPTE 424	UHD	YES	YES
115	FIBER IN 4	FIBER	HD/SD	SMPTE 424	UHD	YES	YES
116	FIBER IN 5	FIBER	HD/SD	SMPTE 424	UHD	YES	YES
117	PMM PGM A	MC PGM	HD/SD	SMPTE 424	HD	YES	YES
118	PMM PGM B	MC PGM	HD/SD	SMPTE 424	HD	YES	YES
119	PMM PGM C	MC PGM	HD/SD	SMPTE 424	HD	YES	YES
120	PMM PGM D	MC PGM	HD/SD	SMPTE 424	HD	YES	YES
121	KHRR SERVICE A	MC PGM	HD/SD	SMPTE 424	HD	YES	NO
122	KHRR SERVICE B	MC PGM	HD/SD	SMPTE 424	HD	YES	NO
123	KUAT STUDIO	RADIO STUDIO	UHD	SMPTE 2082	UHD	YES	YES
124	KUAZ STUDIO	RADIO STUDIO	UHD	SMPTE 2082	UHD	YES	YES
125	TALK STUDIO	RADIO STUDIO	UHD	SMPTE 2082	UHD	YES	YES
126	RASIO STUDIO B	RADIO STUDIO	UHD	SMPTE 2082	UHD	YES	YES
127	RADIO STUDIO C	RADIO STUDIO	UHD	SMPTE 2082	UHD	YES	YES
128	KAET FEED	FIBER	HD	SMPTE 424	HD	YES	NO
129	SIERRA VISTA	FIBER	HD	SMPTE 424	HD	NO	NO
130	ENC-1 ASI 1	CORE	TS	SMPTE 305	TS	YES	NO
131	ENC-1 ASI 2	CORE	TS	SMPTE 305	TS	YES	NO
132	ENC-2 ASI 1	CORE	TS	SMPTE 305	TS	YES	NO
133	ENC-2 ASI 2	CORE	TS	SMPTE 305	TS	YES	NO
134	ENC-3 ASI 1	CORE	TS	SMPTE 305	TS	YES	NO
135	ENC-3 ASI 2	CORE	TS	SMPTE 305	TS	YES	NO
136	ENC-4 ASI 1	CORE	TS	SMPTE 305	TS	YES	NO
137	ENC-4 ASI 2	CORE	TS	SMPTE 305	TS	YES	NO
138	DEMOD-1	CORE	HD/SD	SMPTE 424	TS	YES	YES
139	DEMOD-2	CORE	HD/SD	SMPTE 424	TS	YES	YES
140	DEMOD-3	CORE	HD/SD	SMPTE 424	TS	YES	YES
141	DEMOD-4	CORE	HD/SD	SMPTE 424	TS	NO	YES
142	DEMOD-5	CORE	HD/SD	SMPTE 424	TS	NO	YES
143	DEMOD-6	CORE	HD/SD	SMPTE 424	TS	NO	YES
144	DEMOD-7	CORE	HD/SD	SMPTE 424	TS	NO	YES
145	DEMOD-8	CORE	HD/SD	SMPTE 424	TS	NO	YES
146	DEMOD-9	CORE	HD/SD	SMPTE 424	TS	NO	YES
147	DEMOD-10	CORE	HD/SD	SMPTE 424	TS	NO	YES
148	DEMOD-11	CORE	HD/SD	SMPTE 424	TS	NO	YES
149	DEMOD-12	CORE	HD/SD	SMPTE 424	TS	NO	YES
150	CAPTION ENC A	CORE	HD/SD	SMPTE 424	HD/SD	NO	NO
151	CAPTION ENC B	CORE	HD/SD	SMPTE 424	HD/SD	NO	NO
152	TEST 1	CORE	HD	SMPTE 424	HD	NO	NO
153	TEST 2	CORE	HD	SMPTE 424	HD	NO	NO
154	TEST 3	CORE	UHD	SMPTE 424	HD	NO	NO
155	TEST 4	CORE	UHD	SMPTE 424	HD	NO	NO
156	INGEST A	EFP	UHD	SMPTE 424	HD	NO	NO
157	INGEST B	MC	HD/SD	SMPTE 424	HD	NO	NO
158	PBS TDZ 1	CORE	HD/SD	SMPTE 424	HD	YES	NO
159	PBS TDZ 2	CORE	HD/SD	SMPTE 424	HD	YES	NO
160							

Destinations

Item	Dest	Type	Format	Cable	Level 1
1	SERVER A	Play/Record	UHD	SMPTE 2082	UHD
2	SERVER B	Play/Record	UHD	SMPTE 2082	UHD
3	SERVER C	Play/Record	UHD	SMPTE 2082	UHD
4	SERVER D	Play/Record	UHD	SMPTE 2082	UHD
5	SERVER E	Play/Record	UHD	SMPTE 2082	UHD
6	SERVER F	Play/Record	UHD	SMPTE 2082	UHD
7	SERVER G	Play/Record	UHD	SMPTE 2082	UHD
8	SERVER H	Play/Record	UHD	SMPTE 2082	UHD
9	SERVER I	Play/Record	UHD	SMPTE 2082	UHD
10	SERVER J	Play/Record	UHD	SMPTE 2082	UHD
11	Studio A	Projector	UHD	SMPTE 424	UHD
12	RS-1 OUT	Control Room A	UHD	SMPTE 2082	UHD
13	RS-2 OUT	Control Room A	UHD	SMPTE 2082	UHD
14	RS-3 OUT	Control Room A	UHD	SMPTE 2082	UHD
15	RS-4 OUT	Control Room A	UHD	SMPTE 2082	UHD
16	RS-5 OUT	Control Room A	UHD	SMPTE 2082	UHD
17	RS-6 OUT	Control Room A	UHD	SMPTE 2082	UHD
18	RS-7 OUT	Control Room A	UHD	SMPTE 2082	UHD
19	RS-8 OUT	Control Room A	UHD	SMPTE 2082	UHD
20	RS-9 OUT	Control Room A	UHD	SMPTE 2082	UHD
21	RS-10 OUT	Control Room A	UHD	SMPTE 2082	UHD
22	RS-11 OUT	Control Room A	UHD	SMPTE 2082	UHD
23	RS-12 OUT	Control Room A	UHD	SMPTE 2082	UHD
24	RS-13 OUT	Control Room A	UHD	SMPTE 2082	UHD
25	RS-14 OUT	Control Room A	UHD	SMPTE 2082	UHD
26	RS-15 OUT	Control Room A	UHD	SMPTE 2082	UHD
27	RS-16 OUT	Control Room A	UHD	SMPTE 2082	UHD
28	RS-17 OUT	Control Room A	UHD	SMPTE 2082	UHD
29	RS-18 OUT	Control Room A	UHD	SMPTE 2082	UHD
30	RS-19 OUT	Control Room A	UHD	SMPTE 2082	UHD
31	RS-20 OUT	Control Room A	UHD	SMPTE 2082	UHD
32	RS-21 OUT	Control Room A	UHD	SMPTE 2082	UHD
33	RS-22 OUT	Control Room A	UHD	SMPTE 2082	UHD
34	RS-23 OUT	Control Room A	UHD	SMPTE 2082	UHD
35	RS-24 OUT	Control Room A	UHD	SMPTE 2082	UHD
36	RS-25 OUT	Control Room B	UHD	SMPTE 2082	UHD
37	RS-26 OUT	Control Room B	UHD	SMPTE 2082	UHD
38	RS-27 OUT	Control Room B	UHD	SMPTE 2082	UHD
39	RS-28 OUT	Control Room B	UHD	SMPTE 2082	UHD
40	RS-29 OUT	Control Room B	UHD	SMPTE 2082	UHD
41	RS-30 OUT	Control Room B	UHD	SMPTE 2082	UHD
42	ES-31 OUT	Control Room B	UHD	SMPTE 2082	UHD
43	RS-32 OUT	Control Room B	UHD	SMPTE 2082	UHD
44	RS-33 OUT	Control Room B	UHD	SMPTE 2082	UHD
45	RS-34 OUT	Control Room B	UHD	SMPTE 2082	UHD
46	RS-35 OUT	Control Room B	UHD	SMPTE 2082	UHD

47	RS-36 OUT	Control Room B	UHD	SMPTE 2082	UHD
48	RS-37 OUT	Control Room B	UHD	SMPTE 2082	UHD
49	RS-38 OUT	Control Room B	UHD	SMPTE 2082	UHD
50	RS-39 OUT	Control Room B	UHD	SMPTE 2082	UHD
51	RS-40 OUT	Control Room B	UHD	SMPTE 2082	UHD
52	MO-SYS	Render 1	UHD	SMPTE 2082	UHD
53	MO-SYS	Render 2	UHD	SMPTE 2082	UHD
54	MO-SYS	Render 3	UHD	SMPTE 2082	UHD
55	AC-A	Audio Control A	UHD	SMPTE 2082	UHD
56	AC-B	Audio Control B	UHD	SMPTE 2082	UHD
57	AS-1	Audio Studio	UHD	SMPTE 2082	UHD
58		Audio Sweetning			
	AS-2	Room	UHD	SMPTE 2082	UHD
59	EFP	EFP Room	UHD	SMPTE 2082	UHD
60	CG-A IN 1	GRFX	UHD	SMPTE 2082	UHD
61	CG-A IN 2	GRFX	UHD	SMPTE 2082	UHD
62	CG-B IN 1	GRFX	UHD	SMPTE 2082	UHD
63	CG-B IN-2	GRFX	UHD	SMPTE 2082	UHD
64	STREAM	PROD ENC	UHD	SMPTE 2082	UHD
65	EDIT 1	I/O	UHD	SMPTE 2082	UHD
66	EDIT 2	I/O	UHD	SMPTE 2082	UHD
67	EDIT 3	I/O	UHD	SMPTE 2082	UHD
68	EDIT 4	I/O	UHD	SMPTE 2082	UHD
69	EDIT 5	I/O	UHD	SMPTE 2082	UHD
70	EDIT 6	I/O	UHD	SMPTE 2082	UHD
71	BSP-REM 1	Type A	UHD	SMPTE 2082	UHD
72	BSP-REM 2	Type A	UHD	SMPTE 2082	UHD
73	BSP-REM 3	Type A	UHD	SMPTE 2082	UHD
74	BSP-REM 4	Type B	UHD	SMPTE 2082	UHD
75	BSP-REM 5	Type A	UHD	SMPTE 2082	UHD
76	BSP-REM 6	Type A	UHD	SMPTE 2082	UHD
77	BSP-REM 7	Type A	UHD	SMPTE 2082	UHD
78	BSP-REM 8	Type A	UHD	SMPTE 2082	UHD
79	BSP-REM 9	Type C	UHD	SMPTE 2082	UHD
80	BSP-REM 10	Type C	UHD	SMPTE 2082	UHD
81	BSP-REM 11	Type C	UHD	SMPTE 2082	UHD
82	BSP-REM 12	Type-Fiber	UHD	SMPTE 2082	UHD
83	BSP-REM 13	Type-Fiber	UHD	SMPTE 2082	UHD
84	BSP-REM 14	Type-Fiber	UHD	SMPTE 2082	UHD
85	BSP-REM 15	Type-Fiber	UHD	SMPTE 2082	UHD
86	BSP-REM 16	Type-Fiber	UHD	SMPTE 2082	UHD
87	BSP-REM 17	Type-Fiber	UHD	SMPTE 2082	UHD
88	BSP-REM 18	Type-Fiber	UHD	SMPTE 2082	UHD
89	BSP-REM 19	Type-Fiber	UHD	SMPTE 2082	UHD
90	BSP-REM 20	Type-Fiber	UHD	SMPTE 2082	UHD
91	BSP-REM 21	Type-Fiber	UHD	SMPTE 2082	UHD
92	BSP-REM 22	Type-Fiber	UHD	SMPTE 2082	UHD
93	BSP-REM 23	Type-Fiber	UHD	SMPTE 2082	UHD

94	BSP-REM 24	Type-Fiber	UHD	SMPTE 2082	UHD
95	BSP-REM 25	Type-Fiber	UHD	SMPTE 2082	UHD
96	FIBER OUT 1	LTN-1	HD/SD	SMPTE 424	UHD
97	FIBER OUT 2	LTN-2	HD/SD	SMPTE 424	UHD
98	FIBER OUT 3	LTN-3	HD/SD	SMPTE 424	UHD
99	FIBER OUT 4	COX	HD/SD	SMPTE 424	UHD
100	FIBER OUT 5	KAET	HD/SD	SMPTE 424	UHD
101	FIBER OUT 6	Facebook	HD/SD	SMPTE 424	UHD
102	PMM In-1	PMM	HD/SD	SMPTE 424	UHD
103	PMM In-2	PMM	HD/SD	SMPTE 424	UHD
104	PMM In-3	PMM	HD/SD	SMPTE 424	UHD
105	PMM In-4	PMM	HD/SD	SMPTE 424	UHD
106	KUAT SAF IN-1	ASI	HD/SD	SMPTE 424	HD/SD
107	KUAT SAF IN-2	ASI	HD/SD	SMPTE 424	HD/SD
108	KUAS SAF IN-1	ASI	HD/SD	SMPTE 424	HD/SD
109	KUAS SAF IN-2	ASI	HD/SD	SMPTE 424	HD/SD
110	KUAT STUDIO	RADIO	UHD	SMPTE 2082	UHD
111	KUAZ STUDIO	RADIO	UHD	SMPTE 2082	UHD
112	TALK SHOW STUDIO	RADIO	UHD	SMPTE 2082	UHD
113	RADIO STUDIO B	RADIO	UHD	SMPTE 2082	UHD
114	RADIO STUDIO C	RADIO	UHD	SMPTE 2082	UHD
115	MC PGM 1	PMM	HD/SD	SMPTE 424	HD/SD
116	MC PGM 2	PMM	HD/SD	SMPTE 424	HD/SD
117	MC PGM 3	PMM	HD/SD	SMPTE 424	HD/SD
118	MC PGM 4	PMM	HD/SD	SMPTE 424	HD/SD
119	MC PGM 5	PMM	HD/SD	SMPTE 424	HD/SD
120	MC PGM 6	PMM	HD/SD	SMPTE 424	HD/SD
121	ENC-1 IN-1	CORE	HD/SD	SMPTE 305	TS
122	ENC-1 IN-2	CORE	HD/SD	SMPTE 305	TS
123	ENC-1 IN 3	CORE	HD/SD	SMPTE 305	TS
124	ENC-1 IN 4	CORE	HD/SD	SMPTE 305	TS
125	ENC-1 IN 5	CORE	HD/SD	SMPTE 305	TS
126	ENC-1 IN 6	CORE	HD/SD	SMPTE 305	TS
127	ENC-2 IN-1	CORE	HD/SD	SMPTE 305	TS
128	ENC-2 IN-2	CORE	HD/SD	SMPTE 305	TS
129	ENC-2 IN-3	CORE	HD/SD	SMPTE 305	TS
130	ENC-2 IN-4	CORE	HD/SD	SMPTE 305	TS
131	ENC-1 IN 5	CORE	HD/SD	SMPTE 305	TS
132	ENC-1 IN 6	CORE	HD/SD	SMPTE 305	TS
133	ENC-3 IN-1	CORE	HD/SD	SMPTE 305	TS
134	ENC-3 IN-2	CORE	HD/SD	SMPTE 305	TS
135	ENC-3 IN 3	CORE	HD/SD	SMPTE 305	TS
136	ENC-3 IN 4	CORE	HD/SD	SMPTE 305	TS
137	ENC-4 IN-1	CORE	HD/SD	SMPTE 305	TS
138	ENC-4 IN-2	CORE	HD/SD	SMPTE 305	TS
139	ENC-4 IN-3	CORE	HD/SD	SMPTE 305	TS

140	ENC-4 IN-4	CORE	HD/SD	SMPTE 305	TS
141	TRIVENI TSA	CORE	Transport	SMPTE 305	TS
142	TRIVENI TSA	CORE	Transport	SMPTE 305	TS
143	SATELLITE	ENCODER	HD/SD	SMPTE 424	HD/SD
144	SATELLITE	ENCODER	HD	SMPTE 424	HD/SD
145	SATELLITE	MODULATOR	Transport	SMPTE 305	HD/SD
146	SATELLITE	MODULATOR	Transport	SMPTE 305	HD/SD
147	FS-1	IP MOD IN 1	HD	SMPTE 424	HD/SD
148	FS-2	IP MOD IN 2	HD	SMPTE 424	HD/SD
149	FS-3	IP MOD IN 3	HD	SMPTE 424	HD/SD
150	Studio A	Projector	UHD	SMPTE 424	UHD

Annex B

IPTV Sources

ITEM	SOURCE NAME	FORMAT
1	EDIT 1	1080P
2	AUDIO STUDIO	1080P
3	AUDIO SWEETNING	1080P
4	F/S-1	1080P
5	F/S-2	1080P
6	F/S-3	1080P
7	CTL-A PGM	1080P
8	CTL-B PGM	1080P
9	SAT-1	1080P
10	SAT-2	1080P
11	SAT-3	1080P
12	SAT-4	1080P
13	SAT-5	1080P
14	FIBER IN 1	1080P
15	FIBER IN 2	1080P
16	FIBER IN 3	1080P
17	FIBER IN 4	1080P
18	FIBER IN 5	1080P
19	PMM PGM A	1080P
20	PMM PGM B	1080P
21	PMM PGM C	1080P
22	PMM PGM D	1080P
23	KUAT STUDIO	1080P
24	KUAZ STUDIO	1080P
25	TALK SHOW STUDIO	1080P
26	RASIO STUDIO B	1080P
27	RADIO STUDIO C	1080P
28	DEMOD-1	1080P
29	DEMOD-2	1080P
30	DEMOD-3	1080P
31	DEMOD-4	1080P
32	DEMOD-5	1080P
33	DEMOD-6	1080P
34	DEMOD-7	1080P
35	DEMOD-8	1080P
36	DEMOD-9	1080P
37	DEMOD-10	1080P
38	DEMOD-11	1080P
39	DEMOD-12	1080P
40		

IPTV Destinations

ITEM	SOURCE NAME	FORMAT
1	EDIT 1	1080P
2	AUDIO STUDIO	1080P
3	AUDIO SWEETNING	1080P
4	F/S-1	1080P
5	F/S-2	1080P
6	F/S-3	1080P
7	CTL-A PGM	1080P
8	CTL-B PGM	1080P
9	SAT-1	1080P
10	SAT-2	1080P
11	SAT-3	1080P
12	SAT-4	1080P
13	SAT-5	1080P
14	FIBER IN 1	1080P
15	FIBER IN 2	1080P
16	FIBER IN 3	1080P
17	FIBER IN 4	1080P
18	FIBER IN 5	1080P
19	PMM PGM A	1080P
20	PMM PGM B	1080P
21	PMM PGM C	1080P
22	PMM PGM D	1080P
23	KUAT STUDIO	1080P
24	KUAZ STUDIO	1080P
25	TALK SHOW STUDIO	1080P
26	RASIO STUDIO B	1080P
27	RADIO STUDIO C	1080P
28	DEM0D-1	1080P
29	DEM0D-2	1080P
30	DEM0D-3	1080P
31	DEM0D-4	1080P
32	DEM0D-5	1080P
33	DEM0D-6	1080P
34	DEM0D-7	1080P
35	DEM0D-8	1080P
36	DEM0D-9	1080P
37	DEM0D-10	1080P
38	DEM0D-11	1080P
39	DEM0D-12	1080P
40		

AZPM Content acquisition and Master Standards:

Our goal is to utilize our new high end cameras and upgraded editing facilities to produce the highest quality (both editorially and technically) content possible. This is important in being able to use this media not only for multiple current outlets, but for far into the future!

Field Acquisition

Productions finishing in 1080p HDR 10, the production workflow at its most demanding would look like this:

10-bit 4K acquisition on either Sony or Canon platforms. Bitrates at these codecs are as follows

10-bit XF-AVC 4K 30p on Canon: 410 Mbps

10-bit XAVC-I 4K 30p on Sony: 300 Mbps

The Canon C300 MKII supports HDR 10 - The camera would need to be set to Cinema Gamma, shooting in either Canon 4K RAW, or REC 2020 - in either Canon Log 2 (15 Stops) or Canon Log 3 (14 Stops).

Recording for the Sony FS-7 is in RAW or SLOG3 (exposed properly), HDR-10 is 10-bit, as is the FS7's native encoding. The FS7 RAW is actually 12-bit, so that could create some issues going down to 10-bit.

Studio Acquisition

The facility is rated at 1080P and the AJA Ki Pro recorders can record 1080P in ProRes or dNxHD. We have ordered a single AJA KiPro Ultra UHD recorder that record the UHD content direct from a single studio camera. The cameras can provide signal from our current 1080i HD up to UHD with the activation of a monthly license. We will be testing all to confirm the functionality.

Editing: (all 16:9 formats)

All edit bays have been upgraded with computers and monitors for UHD editing. These are faster computers, higher resolution monitors and OLED viewing screens for HDR coloring grading.

HDTV and web/mobile content formats:

- 480p (Web/Mobile): 854×480p
- 720p (HD Ready): 1280×720p: 923,600 pixels
- 1080i (Interlaced HD) : 1920×1080i: 1,036,800 pixels
- 1080p (Progressive Full HD): 1920×1080p: 2,073,600 pixels

UHDTV: (4K is a Cine term)

- A resolution of 3840 × 2160: 8,294,400 pixels

AZPM Mezzanine and Master format options:

Mezzanine Format – A standard file format that all content will be transcoded to

Master Format – A standard file format that all content will be mastered in

UHD – Eight times the current storage needed

1080P – Twice the current storage needed

The goal is to produce a file that is universal and interoperable within the AZPM content ecosystem. By choosing an MXF wrapped OP1a file with the essence encoded at DNxHD 290 we can guarantee that all our systems will play nicely with this file. Once we procure a new transcoding server we can drop all media into it for Mezzanine format media sharing.

Mastering: Preset editing template can be created so that when an editor starts a show all the basic settings are pre-loaded.

Required output format for ASTC air (AC-4 encoder mapping)

M&E (5.1.2) + D1 + D2:

- Channel 1 Left
- Channel 2 Right
- Channel 3 Center
- Channel 4 Lfe
- Channel 5 Ls
- Channel 6 Rs
- Channel 7 Height left
- Channel 8 Height right
- Channel 9 D1 (e.g. English)
- Channel 10 D2 (e.g. Spanish for SAP)

Arizona Public Media Content Acquisition and House Production Media Standards 2022

Arizona Public Media's goal is to provide the highest quality possible for all its locally created and outside sourced audio and video content. By utilizing the specifications outlined below, AZPM can ensure that all productions will both meet these goals today and provide future ready media content. All applicable non news, pre-produced content will be captured in Ultra High Definition UHD and High Dynamic Range HDR for maximum visual impact. While the current broadcast facility is limited to broadcasting 1080i standard dynamic range 29.97 for OTA (over the air), some OTT (over the top) and online platforms allow for UHD and HDR content, thus AZPM will take advantage of these outlets to distribute the best looking, most dynamic programs possible. This plan also enables future use on NextGen platforms and for syndication.

The **definitions** below will be used internally to ensure that all content creation communication is consistent.

- **HD:** HD is defined as 1920x1080i square pixels. HD for news is typically referred to as 1080i video, it is an interlaced video format that is lightweight and easy to edit and transport. No color correction or postproduction finishing is required as news typically is more timely and may not afford the longer production processes for local shows Like Arizona Illustrated.
- **UHD:** Ultra HD is defined as 3840x2160 square pixels. It is important to understand that "4k" is a cinematic industry term to describe high resolution video using an aspect ratio and pixel count of 4096x2160 pixels. To avoid confusion, AZPM will be intentional about calling our high resolution 3840x2160 video "UHD".
- **HDR:** High Dynamic Range video can include a much wider range of colors and a much greater difference between the brightest whites and the darkest blacks. Like many things in the consumer electronics industry, there are several competing versions of HDR video. All HDR video requires a minimum 10bit video CODEC in order to achieve the greater color depth and dynamic range of HDR. For AZPM purposes, our final HDR delivery standard will be HDR-10. This provides a high-quality format that can be easily converted to HLG for broadcast when that requirement arrives.
- **Frame Rate:** The frame rate of video is often complicated by how it gets labeled. For instance, 29.97 video in the broadcast world typically means 29.97 *interlaced* frames per second. The confusion happens when 59.94i is used to describe high-definition video. The difference is that 29.97 describes the number of FRAMES per second while 59.94i describes the number of FIELDS per second. Therefore, 29.97 and 59.94i are the same thing with different names. It's important to understand that there are many other frame rates you may see including 24p, 25i, 25p, 29.97p, 30p, 50p, 59.94p, 60p, 120p, etc. The key is to note whether the format is interlaced or progressive. It's typically easier to make a quality conversion from a progressive frame of video into an interlaced frame of video than the other way around.
- **CODEC:** CODEC stands for COmpression-DECompression and is how video gets captured or converted to from one format to another in digital media production. There are MANY different video CODECs, with many being proprietary to a camera manufacturer. Panasonic has AVCIntra, Sony has XAVC, Red has REDCODE, etc. Without getting into a lengthy description of how video CODECs work, in order to create UHD HDR video content, AZPM will define certain CODEC criteria including using an I-frame CODEC. This ensures that the video is easier to edit and holds up far better during color and exposure adjustments on a video editing timeline. On the Sony cameras, look for a CODEC name that includes a "-I" at the end, like XAVC-I. "-L" indicates a Long-GOP CODEC which we want to stay away from when possible.

- **LOG:** Many video cameras allow changing the look of the video by applying a LOG gamma curve to the recorded file. In order to record as much color and brightness information as possible from the camera's sensor, you should record in a flat LOG curve. This means that the camera is recording video without applying color and contrast adjustments to the image before committing it to a file, allowing the editor to make those adjustments later during the editing process. Each camera manufacturer has a different way of accomplishing these flat LOG curves but for the Sony cameras AZPM uses, S-LOG 3.cine is required.
- **LUT:** LookUp Table. A LUT allows a videographer to see LOG footage on a display in a more "normal" way. Most LOG video footage looks very ugly because it has little color or contrast to it. To get a better idea of what that video will look like after editing, a LUT can be applied to the monitor or timeline. AZPM will define a standard LUT that will be used for consistency, but it may change or be adjusted from time to time.
- **Audio Quality:** Much like video frame rates, there are many audio bit depths and sample rates. CD quality audio is typically defined as 16bit, 44.1kHz. Most professional devices operate at the more widely accepted "professional" standard of 16bit, 48kHz. The Sony FS7 cameras capture audio at 24bit, 48kHz.

AZPM 2022 Specification

Field Acquisition Non-News

All Field Productions should be acquired at the following standards:

- *UHD (3840x2160)*
- *29.97p (other frame rates should only be used for specific time-based effects)*

Use the following settings on the Sony FS7 cameras.

- *UHD (3840x2160)*
- *29.97p*
- *10-bit XAVC-I 29.97p (equals 300 Mbps)*
- *Cine EI mode*
- *S-LOG 3.Cine*
- *Check with the Senior Editor or Production Manager to make sure the camera monitor is set to our current LUT*

Use the following settings on the Sony FX9 cameras.

- *Cine EI shooting mode*
- *UHD (3840x2160)*
- *29.97p*
- *XAVC-I 29.97p (VBR equals up to 600Mbps)*
- *Cine EI mode*
- *S-Gamut3.Cine/Slog3*
- *Check with the Senior Editor or Production Manager to make sure the camera monitor is set to our current LUT*

If using the Nikon camera with or without an external recorder or any camera other than AZPM owned equipment, consult with the Senior Editor or Production Manager to verify CODEC, LOG, and LUT settings BEFORE shooting your project.

Field Acquisition News

All Field Productions should be acquired at the following standards:

- *HD (1920x1080)*
- *29.97p (other frame rates should only be used for specific time-based effects)*

Use of the following cameras is approved for all HD News acquisition.

- *Sony FS-7*
- *Sony FX-9*
- *Panasonic PII*
- *Nikon*
- *iPhone 12 & 13*

If using any camera other than AZPM owned equipment, consult with the News Director or Production Manager to verify compatibility for using the files.

Studio Acquisition

- *The facility is runs at 1080i 29.97 recorders set to 1080i, 29.97, ProRes 422.*

Editing

To ensure that all content is consistent and ready for broadcast, AZPM will standardize its editing process and specification as follows:

- All timelines should be 16x9 aspect ratio video, 1920x1080 (HD) & 3480x2160 (UHD), 29.97p, with stereo audio mixed to -24LUFS.
- Much of the content will be acquired using the above Field Acquisition specifications and will be finalized for UHD HDR files but some pieces won't. If a videographer or producer is unsure in how a piece will be finalized, consult with the Senior Editor or Production Manager for guidance.
- Live content will not typically allow for UHD or HDR acquisition or distribution and will therefore standardize on 1080i, 29.97, Standard Dynamic Range (SDR).
- Any content being prepared for OTA broadcast must conform to the plant's emission standards. This can be accomplished as a separate export from the editing software using an original UHD HDR master file.

AZPM Broadcast Air Specification

As equipment and service providers change this specification may change but for now includes the following:

- MXF OP1a file format
- XDCam 25/50 Mb/s MPEG-2
- 1920x1080i
- 29.97i
- Embedded 608 and 708 captions
- Audio mixed to -24 LUFS
- 8 channel audio in the following format
 - Channel 1 Left
 - Channel 2 Right
 - Channel 3 Center (Future)
 - Channel 4 Lfe (Future)

- Channel 5 Ls (Future)
- Channel 6 Rs (Future)
- Channel 7 Audio Description AS(Mono)
- Channel 8 SAP (Mono)

Many of these specifications can be defined by editing templates. Check with the Senior Editor or Production Manager to see if templates or presets are available.

AZPM Mezzanine and Master formats for Non-News Content:

Mezzanine Format: A standard file format that all content will be transcoded to for editing.

- AZPM field acquisition will generally NOT need to convert to a mezzanine format but when outside content or non-Sony Cameras are used, convert media to ProRes 422, UHD, 29.97p.

Master Format: A standard format that all content will be finalized to and exported as.

- The goal is to produce a file that is universal and interoperable within the AZPM ecosystem. By using an MXF wrapped OP1a file with the essence encoded in ProRes 422 we can guarantee that our systems will work well with this file now and into the future.
- Master file exports should follow these specifications:
 - MXF OP1a
 - Apple ProRes 422 video CODEC
 - UHD
 - 29.97p
 - Have both an SCC and SRT caption sidecar file
 - Stereo audio, 24bit, 48kHz, mixed to -24LUFS
 - If file is HDR, graded to 1000 nits HDR10
 - Any file that is HDR must include “_HDR” at the end of the file name. This should be removed from the file name if the file has been converted to SDR