

WYOMING PBS SATELLITE PRODUCTION TRUCK UPGRADE EQUIPMENT
Single Channel Character Generator Upgrade

Request For Bids

SECTION I General Conditions and Requirements

NOTICE IS HEREBY GIVEN that Central Wyoming College is requesting bids for the purchase of a **SINGLE CHANNEL CHARACTER GENERATOR** to upgrade Wyoming PBS' Satellite Production Truck. The Wyoming PBS Grant Administrative Assistant will receive bids at the offices of Wyoming PBS, 2660 Peck Avenue, Riverton, Wyoming 82501, until **1:30 p.m., Tuesday, June 28, 2011**. Late bids will not be accepted. Bids shall be sealed and clearly marked "**Single Channel Character Generator Upgrade**". Bids will be opened and read publicly shortly after 1:30 p.m. at the offices of Wyoming PBS. A contract will not be awarded until the Central Wyoming College Vice President for Administrative Services has reviewed the bids and authorized negotiation of contracts.

Bid documents can be obtained at Wyoming PBS, Grant Administrative Assistant, 2660 Peck Avenue, Riverton, Wyoming 82501, or by calling Jan Jensen, at 307-856-6944. Questions regarding the equipment specifications should be directed to Kyle Nicholoff, Production Services Manager, Wyoming PBS 307-856-6944.

The College reserves the right to reject any and all bids and to waive any irregularities, formalities, or informalities in the bid process, and to award the bids as may be in the best interest of the College.

1. SUBMISSION OF BIDS: It is the responsibility of the bidder to carefully examine the Request for Bid document and be familiar with all of the requirements, stipulations, provisions and conditions. All changes, additions, or clarifications to the RFB documents will be done with a numbered addendum. No bids will be considered in which any of the conditions or provisions have been modified. No oral or telephone interpretations of the bid documents shall be binding upon the Central Wyoming College. Bids received after the time and date specified will not be considered and will be returned unopened to the firm. **FAXED AND EMAIL BIDS WILL NOT BE ACCEPTED.**

Three (3) copies of each bid are to be submitted to:

Ms. Jan Jensen, Grant Administrative Assistant
Wyoming PBS
2660 Peck Avenue
Riverton, Wyoming 82501

Bids will be received no later than **1:30 p.m., local time, on June 28, 2011**.

2. VENDOR QUALIFICATION: Bidders shall be the manufacturer of, or authorized representatives of the manufacturers of the equipment specified. The vendor shall be fully able to validate and execute warranty directly or on behalf of the equipment manufacturer.

3. CONTRACTOR PREFERENCE: Bidders are advised that the resident contractor preference and State of Wyoming materials preference statues contained in Wyoming Statutes Sections 16-6-102 and 16-6-106 and related statutes may apply to the submitted proposals to the extent required by law. Because of the nature of this RFB, the extent and the manner to which statutes apply will be considered and evaluated with respect to

each responsible proposal submitted. Those bidders claiming Wyoming residency should include a copy of their Wyoming Certificate of Residency.

This project is a public works project. The Owner is a community college district and a political subdivision of the State of Wyoming. As such, this project is subject to the state statutes concerning resident preferences, specifically, W.S. 16-6-102 and 16-6-106. It is the sole responsibility of the Contractor to become acquainted with and to comply with laws regarding resident preferences.

Pursuant to W.S. 16-6-102 (a), “... ***the contract shall be let to the responsible certified resident making the lowest bid if the certified resident’s bid is not more than five (5%) higher than that of the lowest nonresident bidder.***”

Pursuant to W.S. 16-6-106, “***preference is hereby given to materials, supplies, agricultural products, equipment, machinery, and provision produced, manufactured, supplies or grown in Wyoming, quality being equal to articles offered by the competitors outside of the state.***”

The extent and the manner to which these statutes, and any other applicable statutes, rules or regulations apply will be considered and evaluated with respect to each responsible bid submitted.

4. ACCEPTANCE PERIOD: All bids shall be firm for a period of 90 (ninety) days from the date bids are due.

5. AWARD OF BID: Acceptance of bids is contingent upon available funding and official approval. This bid cannot be assigned or transferred without the written consent of Central Wyoming College. Where terms conflict, provisions contained within this RFB take precedence.

Minority business enterprises will be afforded full opportunity to submit a bid and to contract with the college and will not be subject to discrimination on the grounds of race, creed, national origin, sex or handicap in consideration for an award.

By submitting a bid, the firm certifies under penalty of perjury that it has not acted in collusion with any other firm.

6. PROPERTY OF THE DISTRICT: Documents submitted, as a response to this RFB, shall become the property of Central Wyoming College. Such documents, as property of Central Wyoming College, are subject to public disclosure as prescribed by Wyoming statutes. Proprietary information must be identified and will be protected to the extent allowable by Wyoming law.

7. CONSIDERATION OF BIDS: Price, warranty, any recurrent fees and the equipment that best integrates with the existing system while meeting the needs of Wyoming PBS will be factors in the selection of the equipment.

8. WARRANTY: Warranty periods will commence with the completion of a full proof of performance test by the vendor’s representative witnessed on site by a Wyoming PBS representative. Vendor and/or manufacturer shall be responsible for the shipping cost both ways and any other expenses for equipment repair on site or elsewhere for any equipment which is not received in an operating condition and meeting the manufacturer’s published specifications. Equipment warranty statements shall be provided with the bid response.

9. RETENTION OF FUNDS: Wyoming PBS shall retain Ten (10) percent of the total bid price as a final payment until all equipment, material and documentation meeting specifications are delivered to Wyoming PBS and all claims and provisions of the contract are completed.

10. SHIPPING: All equipment and material shall be shipped to the attention of the Kyle Nicholoff, Production Services Manager, Wyoming PBS, 2660 Peck Avenue, Riverton, WY 82501 not later than 120 days after receipt of order. Methods and schedule of shipping shall be arranged upon letting of the contract. The successful bidder(s) shall prepay freight and present invoices for the actual amount of the shipping charges. As part of the proposal response bidders shall provide an estimate of the freight charges.

11. EXCEPTIONS/ SUBSTITUTIONS/ ALTERNATIVES: Exceptions to any part of specification shall be indicated in writing and included with the bid response designating the section, item number and/or paragraph to which the exception refers. Central Wyoming College may consider equipment other than that specified if equal or better specification, function and value. Bidders proposing alternative equipment shall provide sufficient documentation to permit Central Wyoming College to evaluate any such alternative.

12. LAWS AND REGULATIONS: All equipment shall comply with applicable Federal, State and local laws, regulations and codes and be constructed using best engineering practices.

13. MANUALS: Except as noted at least two (2) copies each of a maintenance and operation manual (instruction sheet) shall be provided of each model type of equipment supplied. Whenever possible, manuals should be provided in electronic form also.

14. EXTENDED MAINTENANCE AGREEMENTS: Vendors shall indicate in their response any costs associated with ongoing software and hardware support beyond the initial warranty period.

SECTION II Detailed Specifications

1. Single Channel Character Generator

1.1 Genlock and Video I/O formats

1.1.1 Shall have the ability to lock to Tri-level Sync or Analog Black Burst.

1.1.2 Shall be equipped with a non-looping Genlock output.

1.1.3 Shall support 480i59.94 and 576i50, 1080i25, 1080i29.97, 1080i59.94, 1080p23.98, 720p24, 720p50, 720p59.94 formats.

1.2 Video inputs

1.2.1 Shall support 1 HD-SDI Video inputs to SMPTE 292M and SMPTE 259M-C.

1.2.2 Shall support up to 8 AES/EBU embedded audio channels (16 discrete channels total).

1.3 Video outputs

1.3.1 Shall support 2 HD-SDI Video outputs (1 Fill and 1 Key signal) to SMPTE 292M and SMPTE 259M-C.

1.3.2 Shall support up to 8 AES/EBU embedded audio channels (16 discrete channels total).

1.3.3 Shall support airing no less than 3 templates simultaneously each on its own independent output layer.

1.4 Audio inputs

1.4.1 2 AES/EBU Audio inputs and 2 channels of analog input, unbalanced 75 ohm, conforming to AES-3id specifications.

1.5 Audio outputs

1.5.1 Shall support 2 channels AES and 2 channels analog audio out, unbalanced 75 ohm, conforming to AES-3id specifications.

1.6 External control

1.6.1 Shall be equipped with GPI functionality over TCP/IP.

1.6.2 Shall be equipped with dedicated, custom designed keyboard via USB at no additional cost.

1.7 Networking and Media File I/O

1.7.1 Shall be equipped with 2 independent Gigabit Ethernet networks ports.

1.7.2 Shall be equipped with 8 USB 2.0 ports; 2 at the front and 6 at the back.

1.7.3 Shall be equipped with 2 USB 3.0 ports at the rear.

1.7.4 Shall be able to support external flash and hard drives for graphics and media import and export.

1.7.5 Shall have a built in DVD R/W drive for graphics and media import and export.

1.7.6 Shall have and IEEE 1394a port

1.7.7 Shall have an RS-232C serial port

1.8 Serviceability

1.8.1 Shall be serviceable with easy access to hard drives and internal components.

1.9 Rack Mounting

1.9.1 Shall be rack mountable in a standard EIA rack enclosure of 24" or greater depth with slide mounting rails.

1.10 Storage

1.10.1 1 TB of Media Storage, and 500 GB of OS drive space with server grade Serial ATA drives.

1.11 System technology

1.11.1 Shall utilize a Workstation class mother board.

1.12 Power

1.12.1 The on-air graphics solution power consumption shall be a maximum of 750 watts.

1.12.2 The on-air graphics solution shall be CE and UL certified, with a front panel on/off switch.

1.13 FCC & EMC Compliance

1.13.1 Shall comply with applicable FCC and EMC emissions and immunity requirements.

1.14 Warranty

1.14.1 Hardware shall be warranted for 12 months from date of delivery.

1.14.2 Hard drives shall be warranted for 54 months from date of delivery.

1.14.3 Software shall be warranted for 12 months from date of delivery and include update versions that are released over that period as well as updated manuals in electronic form.

1.14.4 Extended warranties shall be available and quoted by the manufacturer in the bid submission.

1.15 Support

1.15.1 Manufacturer shall offer a 24x7x365 hotline for emergency technical support at no charge for the life of the on-air graphics solution.

1.15.2 Manufacturer shall provide advance exchange component replacement during the warranty period.

1.16 Upgrade Path

1.16.1 Any potential or future upgrades shall be indicated with the suppliers bid response.

1.17 Environmental Standards

1.17.1 The on-air graphics solution shall meet European Reduction of Hazardous Substances (RoHS) requirements.

1.17.2 The on-air graphics solution and providing company shall comply with the Waste Electrical and Electronic Equipment Directive for recycling.

2.0 Software Specifications

2.1 General

2.2 Supplier shall clearly indicate released versus future software features that have been proposed in this bid.

2.3 Operating System

2.3.1 Shall run Windows 7 Professional 64 Bit.

2.3.2 Shall support upgrades in accordance with Microsoft's Security Bulletins.

2.4 Security

2.4.1 Shall allow antivirus software to run real-time scanning on file types that instates a security risk while the system is operational.

2.4.2 Shall support password protection of the graphic projects.

2.5 Software Architecture

2.5.1 Shall be operational in stand-alone workflows as well as distributed workflows.

2.5.2 Shall offer dedicated software versions for the following operational situations:

- Template design.
- Custom application design.
- Manual playback without creation capabilities.

2.5.3 Shall offer software versions that provide both creation and playback functionalities.

2.6 Language support

2.6.1 The on-air graphics solution must be Unicode compliant.

2.6.2 The on-air graphics solution must support display of multiple foreign character sets within a single text object.

2.6.3 The on-air graphics solution shall support non-Latin file names.

2.7 File Format and Codec support

2.7.1 Shall support importation of the following formats:

- .BMP, .JPG, .PNG, .PSD, .TIF, .TGA, .3DS, .AVI, .MPG, .MOV

2.7.2 Shall support the following typeface file formats:

- TrueType, OpenType, Type1

2.8 Integration / Automation

2.8.1 Shall support the CII protocol (Chyron Inifint Intelligent Interface) over RS232 and TCP/IP.

2.8.2 Shall support integration with Newsroom systems using the MOS protocol.

2.8.3 Shall be integrated with 3rd party data sources:

- XML, RSS, Comma Separated Text files, Microsoft Excel™, Microsoft Access™, SQL, NFL GSIS System

2.9 Design Features: The on-air graphics solution shall:

2.9.1 Provide a full 3D work environment.

2.9.2 Provide a customizable workspace layout.

2.9.3 Provide the ability to define objects and variables that are modifiable by playback-operators and automation systems.

2.9.4 Full real-time preview of any object, texture and animation used in the scene.

2.9.5 Provide a Picon based template library.

2.9.6 Provide multiple user definable viewports.

2.9.7 Display rulers and safe-title area in the viewport.

2.9.8 Offer positioning capabilities in the viewport.

- Move (X, Y, Z), Rotate (X, Y, Z), Scale (X, Y, Z), Object pivot positioning (X, Y, Z), Alpha

2.9.9 Offer support for grouping and sub-grouping of objects within a scene.

2.9.10 Offer user definable material library that offers:

- 2.9.10.1** Support for multi-layered materials.

2.9.10.2 Support for unlimited number of shaders per material.

2.9.10.3 Support for fill blending and alpha blending.

2.9.10.4 Support for following types of shaders:

- 2D, Reflection map, Live source, Video clip, Render view, Window capture, Powerpoint

2.9.11 Offer 2D and 3D text objects that offer:

2.9.11.1 Support for windows fonts library.

2.9.11.2 Support for project specific fonts library.

2.9.11.3 Support for font embedded styles (i.e. Bold, Italics).

2.9.11.4 Support for setting text width, Slant or Skew, Font Weight, Kerning of individual characters, Leading of individual lines.

2.9.11.5 Support for spacing.

- General character spacing, Monospace numeric values and proportional spaced alphabetic objects.

2.9.11.6 Support for shrink to fit.

- Proportion to fit, Width to fit.

2.9.11.7 Support for any of type of materials listed above on any detail of the text object.

2.9.11.8 Support for tab stops.

- Left Justified, Center Justified, Right Justified, Decimal Justified.

2.9.11.9 2D Text with support for.

- Face, Border, Stroke, Shadow, Neon.

2.9.11.10 3D Text with support for.

- Face, Front Bevel, Extrusion, Back Bevel, Back Face.

2.9.12 Offer support for rolls and crawls.

2.9.12.1 Rolls and crawls must support any type of object, including other scenes.

2.9.12.2 Multiline crawl must be supported.

2.9.12.3 Multiple simultaneous crawls and rolls must be supported.

2.9.12.4 It should be supported to link crawls and rolls to external data sources.

2.9.13 Offer a basic set of primitives.

- Quad, Cube, Sphere, Cylinder, Torus with support for any type material listed above.

2.9.14 Offer multiple configurable light sources.

- Directional light, Point light, Spot light.

2.9.15 Offer support for perspective cameras.

2.9.16 Offer support for ortho-cameras.

2.9.17 Offer support for audio and sound effects in 48 kHz .wav format.

2.10 Animation functionality

2.10.1 The on-air graphics solution shall offer user definable animation capabilities supporting the following:

2.10.1.1 Setting keyframes via drag and drop.

2.10.1.2 Animation of individual objects as well as groups of objects.

2.10.1.3 Continuous animations per object or object groups with X, Y, Z position, rotation, scale, pivot, and alpha.

2.10.1.4 Modifiable key frames.

- Support for interpolation, repeats, and 3 and 4 point video

2.10.1.5 Copy and paste of key frames between objects.

2.10.1.6 Separation of animations across multiple animation tracks.

2.10.1.7 Synchronization of start and stop of clip textures.

2.10.1.8 Synchronization of start and stop of sound effects.

2.11 Playback features

2.11.1 The on-air graphics solution shall offer sequential playback functionality (a Sequencer).

2.11.1.1 The Sequencer shall offer support for segmentation of templates into groups.

2.11.1.2 It must be possible to color groups and individual templates for easy recognition.

2.11.1.3 Groups must be collapsible to provide improved overview.

2.11.1.4 It must be possible to play back sequences directly for the keyboard.

2.11.1.5 It must be possible to reorder templates and groups during playback.

2.11.1.6 It must be possible to play back sequences and groups in an automatic fashion.

- Infinite loop.

- Timed frequency.

2.11.1.7 It must be possible to call any scene in the sequence to air in a non-sequential order.

2.11.1.8 The Sequencer shall offer support for all video layers and channels the solution is equipped with.

- It must be possible to animate templates to the individual video layers in the output without affecting other templates aired on the output.

- It must be possible to clear the individual video layers without affect other templates aired on the output.

- It must be possible to change the predefined video layer that a template was allocated during the design process.

2.11.1.9 The Sequencer must support animations embedded in the template as well as standard template transitions.

2.11.1.10 The Sequencer must provide preview of upcoming templates within the user interface.

2.11.1.11 The Sequencer must provide the ability to edit variables and objects that during design was defined as modifiable.

2.11.1.12 The Sequencer must support playing any group of templates as roll or crawl.

2.12 File export

2.12.1 Shall support exporting graphics projects as complete packages that include:

- Scene information, Font files, Textures, 3D primitives, Video clips, Audio files.

2.12.2 Shall support exporting scenes in non-proprietary static image formats.

2.12.3 Shall be support rendering scenes with animations to 32 bit .AVI formats.

SECTION III Options

Vendor will supply costs for the following options.

1. A spare power supply and any fans

2. Onsite Operational Training

WYOMING PBS SATELLITE PRODUCTION TRUCK UPGRADE EQUIPMENT
Single Channel Character Generator Upgrade

Equipment Quoted (attach separate sheet if necessary):

Total Bid \$ _____

Quote prepared by: _____ Title: _____

Signature: _____ Date _____

Name of Company: _____ Years in business _____

Address: _____

City/State: _____ Phone: _____

T.I.N. _____ Fax: _____

Wyoming Resident Business Y____ N____ Email _____

Delivery Will Be Made On Or Before _____

Quote must contain this sheet.