



MCNEESE STATE UNIVERSITY  
 LAKE CHARLES, LOUISIANA 70609  
 AN EQUAL OPPORTUNITY INSTITUTION

# REQUEST FOR SEALED BID

DATE	BID NUMBER
AUGUST 15, 2023	C2400028

PURCHASING CONTACT	PHONE	REQUEST NO.	DEPARTMENT
Cheryl Bellard Email: cbellard@mcneese.edu	337-475-5088	R2400768	IT

**RESPONSE DUE: 08/30/2023 2:00 PM**

**SEE "STANDARD TERMS & CONDITIONS TO BIDDERS"**

**VENDORS MUST SIGN AND RETURN THE BID FORM TITLED "STANDARD TERMS AND CONDITIONS TO BIDDERS" WITH BID RESPONSE TO BE CONSIDERED FOR BID AWARD**

**VENDOR:**

**SEALED BID FOR NAUTEL FM RADIO BROADCAST TRANSMITTER PER SPECIFICATIONS. THIS IS A PROPRIETARY PURCHASE FOR NAUTEL BRAND ONLY. NO SUBSTITUTIONS WILL BE ACCEPTED.**

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**SEALED BIDS MUST BE RETURNED IN A SEALED ENVELOPE/PACKAGE.**

**PRINT THE BID NUMBER, BID DUE DATE AND TIME ON THE OUTSIDE OF THE ENVELOPE/PACKAGE AND RETURN TO SMITH HALL ROOM, ROOM 120 (150 LAWTON DRIVE) LAKE CHARLES, LA 70605 or MSU BOX 92415, LAKE CHARLES, LA 70609, BY THE BID DUE DATE AND TIME.**

Bid must be signed below. I hereby certify that the above bid prices will remain in effect until the goods are delivered if the order is placed within 30 days after bid opening date. Validity of this bid is dependent on the following information:

Delivery \_\_\_\_\_ days ARO/TERMS \_\_\_\_\_

All bids include prepaid delivery, F.O.B. to McNeese State University

**SIGNATURE \_\_\_\_\_**

**DATE: \_\_\_\_\_**

McNEESE PURCHASING OFFICE IS NOT RESPONSIBLE FOR ANY DELAYS CAUSED BY THE CHOSEN MEANS OF SEALED BID DELIVERY (U.S. POSTAL SERVICE, FedEx, UPS, etc.). THE BIDDER IS SOLELY RESPONSIBLE FOR THE TIMELY DELIVERY OF ITS BID. FAILURE TO MEET THE BID OPENING DATE AND TIME SHALL RESULT IN REJECTION OF THE BID.

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McNEESE IS TAX EXEMPT.

SUCCESSFUL BIDDER MUST ACCEPT PURCHASE ORDERS.

PLEASE READ ALL INFORMATION CAREFULLY.

ITEM #1 – NAUTEL GV 15D GVI5D: Nautel 15 kW solid state modular FM radio broadcast transmitter. 3 1/8" EIA output, IncludesExgine.

Features:

- Broadband design -Broadband Hot Plug Power Modules
- Hot Plug Power Supply Modules -Built-in SCA Generators (2) and RBDS/RDS Coder.
- 17 inch Color LCD Touch Screen Display with integrated test equipment, displaying Nautel's Advanced User Interface (AUI).
- AUI includes comprehensive monitoring, including spectrum analyzer, and control to the module level and extensive logging.
- Programmable pre-sets for audio source, power and frequency configurations selectable via local or remote control.
- . Fully Digital Exciter with AES/EBU, analog and composite inputs.
- 'Built-in DSP stereo generator
- . Pre-installation, Installation, Operations and Trouble Shooting manuals provided on USB media.
- And per attached specifications.

Quantity: 1 EA

Price: \$ \_\_\_\_\_

Bid must be signed below. I hereby certify that the above bid prices will remain in effect until the goods are delivered if the order is placed within 30 days after bid opening date. Validity of this bid is dependent on the following information:

Delivery \_\_\_\_\_ days ARO/TERMS \_\_\_\_\_

All bids include prepaid delivery, F.O.B. to McNeese State University

SIGNATURE \_\_\_\_\_

DATE: \_\_\_\_\_





**STANDARD TERMS & CONDITIONS TO BIDDERS**  
**FAX #337-475-5082**

**PROPOSALS:** The proposal must be received by the Purchasing Department, McNeese State University, before the time set for receiving bids. Bids received after the time set will not be considered. Bidder shall assume full responsibility for timely delivery at location designated for receipt of bids. Prices must be clear and be written in ink or typewritten, and the ITB AND Terms & Conditions must be signed in ink. Be sure bid number and due date are clearly shown on outside of package or envelope. Please see return address on the face of the bid form.

**STANDARDS OF QUALITY AND ANY ALTERNATE:** Any product or service bid shall conform to all applicable Federal and State Laws and Regulations and the specifications contained in the solicitation. Unless otherwise specified in the solicitation, any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired and is not intended to limit or restrict competition. Bidder must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact products specified in the solicitation.

When a Pre-Bid Conference is scheduled, no alternative will be considered unless the above conditions are complied with and the "Request for Approval of Alternate" form is completed and returned. This form will be attached when applicable. Only alternates which are approved and acknowledged by addendum following the Pre-Bid Conference will be considered for award at the bid opening. DO NOT SUBMIT BIDS ON UNAPPROVED ALTERNATES.

The burden of proof of the merit of the proposed substitute is upon the proposer. The Purchasing Director's decision of approval or rejection of a proposed substitute shall be final.

**SAMPLES/DESCRIPTIVE LITERATURE:** The envelope/package containing samples and/or descriptive literature submitted by mail for consideration at the Pre-Bid Conference must be labeled in accordance with the instructions given on the "Request for Approval of Alternate" form.

When requested, samples submitted will be returned at bidder's risk and expense provided they have not been made useless through tests.

**PRICES:** Unless otherwise specified by McNeese in the solicitation, bid prices must be complete, including transportation prepaid by bidder to destination and firm for acceptance for a minimum of 30 days. If accepted, prices must be firm for the contractual period. Bids other than F.O.B. destination may be rejected. Prices should be quoted in the unit (each, box, case, etc.) as specified in the solicitation.

**BID OPENING:** Bidders may attend the bid opening, but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bids may be examined within 72 hours after bid opening. Information pertaining to completed files may be secured by visiting McNeese during normal working hours. Written bid tabulations will not be furnished.

**AWARD OF BIDS:** McNeese State University reserves the right to award items separately, grouped, or on an all-or-none basis, and to reject any or all bids and waive any informalities incident thereto.

**DELIVERY FAILURE:** If the vendor fails to make delivery within the time specified on bid documents or within a reasonable time if no delivery time is specified McNeese reserves the right to cancel the item and to purchase it elsewhere. Any increase in price and/or cost of handling will be charged to the vendor making the original unsatisfactory delivery. Consistent unsatisfactory deliveries will be considered just cause for deleting a vendor from bid lists.

**TERMINATION OF THIS AGREEMENT FOR CAUSE/CONVENIENCE:** McNeese may terminate this agreement for cause based upon the failure of Contractor to comply with the terms and/or conditions of the Agreement, or failure to fulfill its performance obligations pursuant to this agreement, provided that McNeese shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have corrected such failure or, in the case of failure which cannot be corrected in thirty (30) days, begun in good faith to correct such failure and thereafter proceeded diligently to complete such correction, then McNeese may, at its option, place the Contractor in default and the Agreement shall terminate on the date specified in such notice.

The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of McNeese to comply with the terms and conditions of this agreement, provided the Contractor shall give McNeese written notice specifying McNeese's failure and a reasonable opportunity for McNeese to cure the defect.

McNeese may terminate the Contract at any time by giving thirty (30) days written notice to the Contractor of such termination or negotiating with the Contractor an effective date.

**SOLICITATIONS FOR (MOST) GOODS, NOT SERVICES, INCLUDE THE LOUISIANA PRODUCT PREFERENCE AS STATED BELOW:**

IN ACCORDANCE WITH LOUISIANA REVISED STATUTES 39:1604, A PREFERENCE MAY BE ALLOWED FOR PRODUCTS MANUFACTURED, PRODUCED, GROWN, OR ASSEMBLED IN LOUISIANA OF EQUAL QUALITY.

PREFERENCES SHALL NOT APPLY TO SERVICE CONTRACTS.

Do you claim this Preference? YES \_\_\_\_\_ NO \_\_\_\_\_

Specify Line Number(s): \_\_\_\_\_

Specify location within Louisiana where this product is manufactured, produced, grown or assembled: \_\_\_\_\_

NOTE: If more space is required, include on separate sheet.)

Do you have a Louisiana business workforce? YES \_\_\_\_\_ NO \_\_\_\_\_

If so, do you certify that at least fifty percent (50%) of your Louisiana business workforce is comprised of Louisiana residents? YES \_\_\_\_\_ NO \_\_\_\_\_

**IN ACCORDANCE WITH L.R.S. 39:1594 (ACT 121), THE PERSON SIGNING THE BID MUST BE:**

1. A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State; or
2. An individual authorized to bind the vendor as reflected by a corporate resolution, certificate or affidavit; or
3. Other documents indicating authority which are acceptable to the public entity.

By signing and returning this document (along with bid), you are certifying compliance with all Terms and Conditions set forth.

\_\_\_\_\_  
Signature & Company Name

\_\_\_\_\_  
Date



## GENERAL

### Transmitter Type

FM Broadcast, 100% solid state

### Configuration

8 hot swappable RF power modules

16 switching power supplies (2 per RF power module)

Power supplies are hot-swappable

1 low voltage power supply (same as RF power module power supply) with redundant supply standard

Integrated exciter

Remote Interface PWB

### Optional

Main/standby exciter

UPS Interface

Orban Inside

Additional LVPS

### RF Output Connection

3-1/8 inch EIA, female (standard)

### RF Output Impedance

50 ohms unbalanced

### RF Load VSWR

1.5:1 with automatic power reduction into higher VSWR

Protected from open and short circuits at all phase angles

### RF Frequency Range

87.5 MHz to 108 MHz

No tuning required

### Frequency Stability

± 200 Hz

### Turn Around Loss

Better than 20 dB

### Spurious and Harmonic

Meets or exceeds all FCC/IC/RED requirements

### Upgradeability

Upgradable to the next highest nameplate power level with factory firmware update

## AC INPUT

### Voltage (factory configured)

208 Vac nom. 3-ph. or 240 Vac nom. 1-ph. (90 Vac to 265 Vac with reduced output power capability below 175 Vac)

380 Vac nom. 3-ph. (156 Vac to 459 Vac with reduced output power capability below 303 Vac)

47-66 Hz

Bottom AC input optional; factory configurable; contact Nautel for details

### Power Consumption

#### Analog mode:

23.2 kW at 16.5 kW RF output (23.7 kVA)

#### HD Radio Hybrid Mode (-20dB):

21.4 kW at 15 kW RF output (21.9 kVA)

#### HD Radio Hybrid Mode (-14dB):

23.7 kW at 13.5 kW RF output (24.2 kVA)

#### HD Radio Hybrid Mode (-10dB):

19.2 kW at 10 kW RF output (19.6 kVA)

### Power Factor

Unity Power Factor Corrected (typically 0.98)

### Power Line Harmonics

IEEE 519-1992



RF Output Power and Efficiency	Analog Mode (max/rated)	HD Radio Hybrid (-20dB)	HD Radio Hybrid (-14dB)	HD Radio Hybrid (-10dB)
Analog TPO (kW)	16.5 / 15	15	13.5	10
Typical Efficiency	71%	70%	57%	52%

Typical analog power measured with MP3 mode, 1.1:1 VSWR.

Power outputs vary with injection level, frequency, VSWR, MP operating mode, and symmetrical vs. asymmetrical sidebands. Please contact your Nautel representative to discuss your specific HD power requirement.

## AUDIO PERFORMANCE

### Asynchronous AM S/N Ratio

Better than 60 dB below reference carrier with 100% amplitude modulation using 75  $\mu$ s de-emphasis (no FM modulation present)

### Synchronous AM S/N Ratio

Better than 50 dB below reference carrier with 100% amplitude modulation using 75  $\mu$ s de-emphasis

## ENVIRONMENTAL

### Temperature Range

0°C to +50°C  
Derate 3°C per 500 m above sea level  
(2°C per 1000 ft)

### Humidity Range

0% to 95% non-condensing

### Altitude

0 m to 3000 m (0 ft to 10,000 ft)

### Cooling Air Requirements

2888 m<sup>3</sup>/hr (1700 cfm)

## COMPLIANCE

Product complies with:

- ISED specification BETS6 issue 2
- FCC CFR title 47 part 2 and part 73
- Conforms with all essential requirements of Radio European Directive 2014/53/EU

## PHYSICAL

### Dimensions

Open ventilation configuration:  
184.2 cm H x 91.4 cm W x 83.8 cm D  
(72.5" H x 36" W x 33" D)

Note: total depth can be reduced to 76.2 cm (30") with rear filter panel and front door removed.

Closed ventilation configuration - consult factory

### Weight

376 kg (830 lbs)