Equipment Specifications
Cardiovascular Radiographic Fluoroscopic System
VISN20/VA Puget Sound – Seattle Division
663-B90043

A. REQUIREMENT OVERVIEW

This document highlights the technical specifications and services being requested by VISN 20 VA Puget Sound – Seattle Division for consideration towards the purchase of one floor mounted Cardiovascular Radiographic Fluoroscopic system for the Cardiology Department. This will replace the current single plane Cath Lab system. Offerors under this proposal shall provide all equipment and accessories, installation services, training, and project management support.

Facility	Quantity
VA Puget Sound – Seattle Division (663)	1

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Minimum AP gantry depth [cm]	90-95
b. AP gantry RAO projection rotation range [deg]	± 130
c. AP gantry LAO projection rotation range [deg]	± 130
d. AP gantry rotation rate range [deg/s]	25 – 45
e. AP gantry minimum cranial-to-caudal angle [deg]	+ 55/– 45
f. AP gantry SID range [cm]	90 – 120
g. Table height range from floor [cm]	78 – 110
h. Table rotation range [deg]	± 120° with 5° increments
i. Table longitudinal motion range [cm]	125
j. Table transverse motion range [cm]	± 17.5
k. Table maximum patient weight capacity [kg]	550
l. X-ray generator minimum power rating @ 100 kVP [kW]	125
m. Radiographic mA range [mA]	800 – 1000
n. Radiographic kV range [kV]	100 -125
o. Fluoroscopic mA range [mA]	800 – 1000
p. Fluoroscopic kV range [kV]	100 -125
q. Cine range [fps]	8 – 30
r. X-ray tube minimum focal spot size [mm]	0.4
s. Number of workstation monitors	2
t. Minimum workstation monitor size [in]	19

u. Minimum workstation storage [GB]	250

2. Additional specifications

☒	a. Type	◉ Single plane ○ Biplane
☒	b. AP gantry configuration	○ Ceiling-mounted ◉ Floor-mounted
☒	c. AP gantry park capability	
☒	d. Lateral gantry park capability	
☒	e. Floating tabletop	
☒	f. Rotational angiography	
☒	g. Pulsed fluoroscopy	
☒	h. Full in-room control	
☒	i. Digital detector	
☒	j. Virtual collimation using Last Image Hold	
☒	k. Auto-adjustable copper filtration	
☒	l. Dose monitoring	
☒	m. Data compression	
☒	n. Wireless footswitch	
☒	o. Stent positioning software	
☒	p. Vascular analysis software	
☒	q. 3D anatomical structure software	
☒	r. ECG triggered fluoroscopy and acquisition	
☒	s. Optimal image quality at the lowest radiation dose	
☒	t. Communication system	
☒	u. Cart mounted injector	
☒	v. Upper and lower body radiation protection	
☒	w. Ceiling-mounted exam light	
☒	x. Boom mounted 55” monitor in procedure room	
☒	y. UPS full system coverage	

3. Security/Connectivity Requirements

☒	a. OEM-supported operating system
☒	b. Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist
☒	c. Encrypted hard drive
☒	d. Compatibility to Sensis Vibe Hemodynamics
☒	e. PACS compatibility – Syngo Dynamics/Xcelera

4. Added Value

Specifications listed below are not required, but preferred. Vendors who do not include the below specifications in the submitted offer will not be docked or excluded from consideration. Specifications listed below will be evaluated based on added value.

☒	a. Additional year(s) of warranty

C. TRAINING REQUIREMENTS

1. Clinical Training

☒	a. On-site clinical applications training for 7 technologists during go-live
☒	b. On-site follow-up clinical applications training for 7 technologists once technologists have hands-on experience with the system
☒	c. On-site clinical applications training for 4 physicians during go-live
☒	d. Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).
☒	e. Vendors shall be responsible for accommodating different personnel shifts for clinical applications training during go-live.

2. Biomedical Technician Training

Please reference the "Instructions to Offers" section 2.8.g for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

Technical training information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.

Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.

D. SERVICE REQUIREMENTS

1. VPN/Remote Access – The vendor shall provide any and all equipment service programs, such as remote diagnostics, during the warranty period. The vendor shall provide post-warranty remote diagnostic service program as an "Add Option" with the offer. The system shall provide vendor remote diagnostics via VPN. The vendor shall either utilize the VA national site-to-site VPN or work with the Office of Cyber and Information Security and the VAMC Information Systems Security Officer to establish a client-based VPN.

2. Service and Operator Manuals – The vendor shall provide the following documentation for the proposed systems:
    a. Two (2) copies of operator instruction manuals (one (1) electronic and one (1) physical copy)
    b. Two (2) copies of a service manuals (one (1) electronic and one (1) physical copy)

*Vendors can include the physical copy as a priced line item in their quote as applicable.

3. Minimum Warranty – The system and accessories shall be covered under the manufacturer's warranty and shall include all parts and labor for one year following acceptance by the VAMC. This warranty must include PMs as required by the manufacturer. The manufacturer's factory-trained field service representatives shall perform installation and maintenance during the warranty period.

Vendors are encouraged to include any offerings for service, warranty, and training that may exceed the minimum requirements, to include information on their service support structure during and after the warranty period. Vendors who do not include any added value offerings for service, warranty, and training will not be docked or excluded from consideration. However, any such offerings will be evaluated based on added value.

E. OTHER INFORMATION/DOCUMENTATION REQUESTED

1. Please reference the "Instructions to Offers" section 2.8a-h for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

1. Completed pre-procurement assessment form (6550 Appendix A)
2. Completed Manufacture Disclosure Statement for Medical Device Security (MDS2) form
3. Federal Information Processing Standard (FIPS) 140-2 certification
4. Product brochures
5. Technical specification sheets, to include dimensions and weight of the system
6. Typical drawings (pdf version of the CAD drawings)
7. Technical training- Biomedical: information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.
    - Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.
8. Support information to include your company's support structure during and after the warranty period
    - On-line or telephonic applications support and availability (include third party coverage)
    - A listing of field service engineer locations and availability
    - A listing of part depots

F. TRADE-IN

☒	a. In instances where sanitization of ePHI compromises the OS and/or application software, or requires the removal of internal storage media, the vendor accepts the equipment "as is" and can elect at their own discretion to contract with the original equipment manufacturer (OEM) to restore the system.

The following equipment is available for trade-in. Please reflect any credits provided for trade-in equipment in the proposal.

Station	Seattle VA (663)
Manufacturer	Siemens Healthcare Inc
Model	Artis Zee
EE/Asset Number	EE81971
Serial Number	135203