

## Functional Requirements for **Multi - Functional Fluoroscopy System**

For **Fargo VA Medical Center (437)**

Obligation Number **618-B49002**

*This document highlights the technical specifications and services being requested by this facility for consideration toward purchase of a system that will be used for the following types of procedures: lumbar punctures/procedures (LPs), myelograms, biopsies, barium swallow, modified barium swallow, barium enema, shoulder injections, picc line placement, epidurals, nerve root blocks, pain management injections, and arteriograms. This Offerors under this proposal shall provide all equipment and accessories, installation services, training, and project management support.*

### **Technical Requirements:**

#### **Generator Requirements:**

1. 80 kW, 3 phase generator
2. Radiographic kVp range is 40-150
3. Radiographic mA range 800 ma@ 100KVp
4. Fluoroscopy KVp range 40-110
5. Continuous and pulsed fluoroscopy ma modes.

#### **Fluoroscopic Tube**

1. Pulsed/grid tube
2. Pulse rate- frames per seconds 1-30 fps
3. Automatic filtration
4. Provide small and large Focal Spot information

#### **Fluoroscopic spot device/Detector**

1. Flat panel detector technology
2. Acquisition Matrix size 1024x1024
3. Acquisition bit depth 12 (minimum)
4. Automated image capture and save to include last image hold.
5. SID range from 90 to 120 cm (minimum)
6. Heat unit x-ray tubes – 350 kHU
7. Table side controller (either pedestal or detachable control)
  - a. Push button control of algorithms
  - b. Footswitch control–
    - Controls both fluoroscopy and spot shots
    - Automatic shut off when footswitch is released
8. Ceiling mounted articulating surgical procedure lamp/light
9. Variable speed power assist controlled in all directions
10. Removable lead curtains also include counter weights for when curtains are not in use

*\*items 8-10 are preferred but not requirements. Therefore, if these are on your NAC contract please include them – if they are NOT on your NAC contract it will not be counted against your bid during evaluation*

#### **Control room Fluoroscopic/Radiographic control panel**

1. 19" control room LCD monitor (minimum)
2. Auto HIS/RIS refresh package
3. Quality Control tracking package
4. Structured dose reporting software
5. Operating System is Windows 7 or newer

6. UPS for x-ray control/image memory

#### **In room Monitor Requirements:**

1. Remote control to orientate and manipulate images
2. Two - 19" LCD – Ceiling mounted

#### **Table Requirements:**

1. Static – 400 lbs patient weight limit (minimum)
2. Dynamic – 350 lbs patient weight limit (minimum)
3. Ability to lower examination table
4. Ability to tilt 90 degrees upright
5. Ability to tilt 15 degrees Trendelenburg (at a minimum)
6. Articulation of the table – please describe in detail
7. Auto centering option to exact middle while the table is vertical or horizontal positions
8. Table movement controls located table side or trolley
9. Head holder device for prone position.
10. Removable/adjustable patient handgrips.
11. Removable/adjustable footrest
12. Removable/adjustable shoulder rests
13. Removable/adjustable stirrups

### **Warranty**

1. Warranty – minimum 1 year

### **Manuals:**

1. The vendor shall provide two complete and unabridged sets of operator manuals, service manuals, electronic schematics, troubleshooting guides and parts lists for each piece of equipment purchased. Additionally any upgrades to these documents shall be provided at no additional cost. These manuals will include all components and subassemblies, including those not manufactured by the vendor. These manuals and documentation shall be identical to the ones supplied to the manufacturer's service representatives and shall contain the diagnostic codes, commands, and passwords utilized in maintenance, repair and calibration of the equipment.

### **Training**

1. Off site – Basic Clinical Training for **two** technologists to include tuition and travel (if off site not available from vendor – please substitute with on-site training)
2. On-site – Clinical applications during GO LIVE - **Four days – 8 hours per day at a minimum**. This training is to include training for technologists and radiologists.
3. Follow up applications training to be provided after technologists have hands-on experience with the system - no earlier than 6 months after installation - **Two days – 8 hours per day at a minimum**. This training is to include training for technologists and radiologists.
4. **One** Biomedical technician training- tuition and travel
5. Quick notes – or reference guides to be provided during on-site training
6. Same Clinical Applications trainer for each site who must be cleared through VISN 23 workgroup

### **Information to be provided by each vendor:**

1. Provide references for the clinical applications trainer that will be assigned to VISN 23.
2. Provide detail information about the length of the Biomedical Technical Training.
3. Provide small and large Focal Spot information

4. Articulation of the table – please describe in detail
5. Provide details on the table side controller – what it controls, ability to switch techniques depending on the procedure, etc.
6. Typical drawings (to include minimum room size requirements)
7. DICOM Conformance Statement
8. Completed Pre-procurement Assessment form (6550) and MDS<sup>2</sup> document
9. Information about your companies support structure during the warranty period (i.e. a listing of Field Service Engineer locations and availability, support 800 phone number(s), remote support, etc.)

## **Trade-in**

Option 1 – VA will retain any hard drives containing electronic personal health information (ePHI).

Manufacturer: Philips

Model: Eleva

S/N: 400014

Acq. Year: 9/16/2008

EE# 12105

