

**Equipment Specifications**  
**Non-Diagnostic SPECT/CT**  
**VISN 23 Black Hills-Hot Springs VA Healthcare System (618-B79001)**

VISN 23 is requesting a replacement non-diagnostic SPECT/CT. This equipment will be used to provide low dose non-diagnostic CT for anatomic localization and CT attenuation correction.

**Main Nuclear Medicine System**

1. Dual detector with variable angle
2. Large field of view: minimum UFOV 50cm x 38cm
3. Table weight limit > 500lbs
4. Bore size minimum 70cm
5. Energy range minimum 60-550keV
6. CTAC timing resolution equal to or less than 0.5 sec, multiple kVp, mA
7. Iterative reconstruction for CTAC
8. High resolution detector – 3/8" Crystal
9. High performance dual head configuration
10. Our room size is limited; therefore, please provide dimensions of the system H x D x W (in).

**CT Specifications**

1. Non-diagnostics CT to be used for attenuation correction and localization only
2. Minimum 4 Slice CT
3. Field of view: minimum 47cm
4. Rotation time: minimum 60 seconds

**Collimators (*per table below*)**

1. Automatic collimator exchange is preferred
2. Minimal amount of storage carts is important
3. Low Energy High Resolution (LEHR) collimators (x2)
4. Collimator cart(s) – as required by vendor

**Accessories/Additional Items:**

1. ECG/cardiac gate
2. Flood source/holder
3. Four quadrant bar phantom
4. Point source/COR source/holder
5. Low contrast CT phantom/holder
6. Scanner UPS (not a full UPS, but a UPS to allow shut down of system safely, 10-30 minutes)
7. Main disconnect panel
8. Head holder
9. Patient arm support
10. Patient leg rest

11. Patient pallet extender
12. Patient table multi-angle pivot (used to perform stand up images)

**Qty 2 - Acquisition Workstation** – *located in the scan room and control room*

1. Acquisition/console hardware
2. Minimum 19" LCD monitor (quantity as required by vendor)
3. Keyboard/mouse
4. Latest operating systems (e.g. Windows 7 or greater)
5. Workstation UPS (as defined by vendors)
6. Hardware memory upgrade (ex: 24GB RAM)
7. Mounting system for monitor in the scan room

**Qty 1 - Processing Workstation** – *located in the control room*

1. Acquisition/console hardware
2. Minimum 19" LCD monitor (quantity as required by vendor)
3. Keyboard/mouse
4. Latest operating systems (e.g. Windows 7 or greater)
5. Workstation UPS (as defined by vendors)
6. Hardware memory upgrade (ex: 24GB RAM)

**Software**

1. Acquisition software
2. DICOM modality worklist
3. SPECT/CT processing
4. Nuclear medicine diagnostic applications
5. SPECT/CT fusion applications
6. Software licenses
  - Include license for sending radiation dose structured report data
7. Processing software to enhance the images
8. Cardiac software for equipment and collimator

**Advanced Applications** *(all applications to be included on the all processing and reading workstations)*

1. Quality control package
2. Whole body SPECT capability
3. Advanced nuclear cardiology SPECT/CT
4. Advanced nuclear cardiology configuration/hardware/processing
5. SPECT/CT MPI registration/QC package (ex: Cedars QGS/QPS, Emory TB, 4DM, Autoquant)
6. Advanced nuclear oncology
7. Advanced nuclear neurology
8. Advanced iterative reconstruction/processing for nuclear medicine/nuclear cardiology
9. Advanced resolution recovery
10. ½ time/dose planar

## 11. ½ time/dose SPECT

*Each vendor is to respond with analysis packages that meet the criteria listed above. Please include all other analysis packages offered by your company in the optional section on the quotes.*

### **Training**

1. Initial onsite application training (3 days minimum) focus on CT for technologists
2. Initial onsite applications training (1 week) – to be used 1 week prior to go-live for technologists
3. Go-Live onsite applications training (1 week) – to be used for technologists
4. Follow-up onsite applications training (1 week) – to be used with the first 9 months from Go-Live for technologists
5. Offsite training for one technologists as recommend by vendors
  - Technologists offsite training travel package (Lodging/Meals/Transportation)
6. One technical biomedical engineering training
  - Technical biomedical engineering training travel package (Lodging/Meals/Transportation)
  - Please include any pre requisites required

### **Support and other Documentation to Provide:**

1. Provide images of thyroid procedure with and without the use of a pin hole collimator
2. Please provide the weight of the unit.
3. Provide us any technology advancements in the works for this platform – upgrades -
4. Please provide the physical size (Height, Width, Depth).
5. Provide 2 copies product service manuals (1 hard copy and 1 digital copy).
6. Provide DICOM conformance statement
7. Provide completed pre-procurement assessment form (6550)
8. Provide 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: All hard drives will be retained by the VA.

Manufacture: Philips

Model: Brightview XCT

S/N: 6000052

Acq Year: 12/20/2009

EE#: 33116