

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

VIA EMAIL ONLY

December 22, 2020

Lisa L. Griffin llgriffin@novanthealth.org

Exempt from Review – Replacement Equipment			
Record #:	3450		
Date of Request:	12/8/2020		
Facility Name:	Novant Health Presbyterian Medical Center		
FID #:	943501		
Business Name:	Novant Health, Inc.		
Business #:	1341		
Project Description:	Replace existing cardiac catheterization equipment		
County:	Mecklenburg		

Dear Ms. Griffin:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that the above referenced project is exempt from certificate of need review in accordance with G.S. 131E-184(a)(7). Therefore, you may proceed to acquire without a certificate of need the Philips Azurion 3 M12 cardiac catheterization equipment to replace the GE Innova 2100 IQ cardiac catheterization equipment. This determination is based on your representations that the existing unit will be sold or otherwise disposed of and will not be used again in the State without first obtaining a certificate of need if one is required.

It should be noted that the Agency's position is based solely on the facts represented by you and that any change in facts as represented would require further consideration by this office and a separate determination. If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Julie M. Zaenza

Julie M. Faenza Project Analyst

Lisa Pittman Assistant Chief, Certificate of Need

cc: Acute and Home Care Licensure and Certification Section, DHSR Construction Section, DHSR

> NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF HEALTH SERVICE REGULATION HEALTHCARE PLANNING AND CERTIFICATE OF NEED SECTION

LOCATION: 809 Ruggles Drive, Edgerton Building, Raleigh, NC 27603 MAILING ADDRESS: 809 Ruggles Drive, 2704 Mail Service Center, Raleigh, NC 27699-2704 https://info.ncdhhs.gov/dhsr/ • TEL: 919-855-3873

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

December 8, 2020



Via Email

Julie Faenza, Project Analyst, Certificate of Need N.C. Department of Health Service Regulation 809 Ruggles Drive Raleigh, North Carolina 27603

Re: Novant Health Presbyterian Medical Center Replacement of Cardiac Catheterization Equipment Charlotte, NC (FID: 943501; Mecklenburg County)

Dear Ms. Faenza:

Novant Health Presbyterian Medical Center ("NHPMC") intends to replace an existing cardiac catheterization equipment currently located at the main campus of NHPMC in Charlotte, North Carolina. The existing cardiac catheterization equipment is past its useful life having been acquired in 2008 as an equipment replacement. Therefore, NHPMC will acquire a new Philips Azurion 3 system. See **Attachment A** for the Equipment Quote and a quote regarding the removal of the existing equipment. As part of the equipment cost, the vendor will provide onsite clinical training for the equipment. The total capital cost for the proposed replacement equipment project is estimated to be $$1,955,245^1$. See **Attachment B** – Projected Capital Cost Form.

The proposed project meets the definition of "replacement equipment" found in G.S. 131E-176(22a) and 10A N.C.A.C 14C.0303 for the following reasons:

- (1) NHPMC will replace the existing cardiac catheterization with the proposed equipment that is functionally similar and will be used for the same diagnostic purposes, although it possesses expanded capabilities due to technological improvements.
- (2) The proposed equipment will not be used to provide a new health service.
- (3) The acquisition of the proposed equipment will not result in more than a 10% increase in patient charges or per procedure operating expenses within the first twelve months after the replacement equipment is acquired.
- (4) NHPMC seeks to replace comparable medical equipment currently in use at project cost less than \$2 million.
- (5) The existing equipment was not purchased second-hand nor was the existing equipment leased.
- (6) The existing equipment will be removed from North Carolina.

In support of our request, please find attached:

Attachment A – Vendor Equipment Quote & Removal Quote
Attachment B – Project Capital Costs & Certified Architects Letter
Attachment C – NC CON Equipment Comparison chart
Attachment D - Excerpt of 2020 License Renewal Application

2085 Frontis Plaza Boulevard Winston-Salem, NC 27103

¹ The project cost does not include sales, property or excise taxes as NHPMC is not subject to these taxes as a non-profit, tax-exempt organization.

Ms. Julie Faenza Re: NHPMC Replacement of Cardiac Catheterization Room 3 December 8, 2020 Page 2

The Equipment Comparison is included as **Attachment C**. The most recent License Renewal Application is attached as **Attachment D** to document that this cardiac catheterization lab is still in use. It is one of two CON-approved cardiac catheterization labs located at NHPMC.

NHPMC's acquisition of the replacement equipment does not require a certificate of need because none of the definitions of "new institutional health services" set forth in N.C.G.S. Section 131E-176(16) apply to the proposed project. As outlined above, the total cost for the project is \$1,955,245. The proposed capital cost includes equipment, as well as studies, surveys, designs, plans, working drawings, specifications, construction installation and other activities essential to making the equipment operational.

Based on the information provided, please confirm that NHPMC's replacement equipment request does not constitute a new institutional health service and is exempt from certificate of need review.

If you need additional information, please do not hesitate to contact me.

Sincerely,

sa

Lisa Griffin Manager, Operational Planning Novant Health, Inc.

Enclosures

ATTACHMENT A -

- Equipment Quote
 - Removal Quote



Quotation #: 1-21HT3N8	Rev: 6	Effective From:	20-Oct-20	To:	19-Dec-20
Presented To: NOVANT HEALTH PRESBYTERIAN M 200 HAWTHORNE LN CHARLOTTE, NC 28204-2515	EDICAL CENTER	Presented By: William Haynes Account Manager John Hill Regional Manager		Tel: (919) 949 Fax: Tel: (800) 722 Fax:	
Tel:					
Alternate Address:		:			
Date Printed: 20-Oct-20		: : :			

This quotation contains confidential and proprietary information of Philips Healthcare, a division of Philips North America LLC ("Philips") and is intended for use only by the customer whose name appears on this quotation. It may not be disclosed to third parties without the prior written consent of Philips.

IMPORTANT NOTICE: Health care providers are reminded that if the transactions herein include or involve a loan or discount (including a rebate or other price reduction), they must fully and accurately report such loan or discount on cost reports or other applicable reports or claims for payment submitted under any federal or state health care program, including but not limited to Medicare and Medicaid, such as may be required by state or federal law, including but not limited to 42 CFR 1001.952(h).

	Quote Solution Sun	nmary	and the second	
Line # Product		Qty		Price
100231 Azurion 3 M12		1		\$653,520.42
		Equipment Total:		\$653,520.42
	Solution Summary	Detail	14 - Harris	
Product	Qty	<u>Each</u>	Monthly	Price
100231 Azurion 3 M12	1	\$653,520.42		\$653,520.42
Buying Group: VIZIENT SUPPLY LLC	Contract #:	XR0312 CV		
Addt'l Terms: The specific Contract # refer	renced above represents the Novatio	on or Vizient agreemen	nt with Philips	containing

discounts, fees and any specific terms and conditions will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions will reference a specific Buying Group/Contract Number representing an agreement containing discounts, fees and any specific terms and conditions which will apply to that single quoted solution. If no Buying Group/Contract Number is shown,

Philips' Terms and Conditions of Sale will apply to the quoted solution.

Each equipment system listed on purchase order/orders represents a separate and distinct financial transaction. We understand and agree that each transaction is to be individually billed and paid.

Payment Terms: 0% Down, 80% Upon Delivery, 20% Due When the Product is Available for First Patient Use, Net due 30 days from date of invoice

Quote Summary 100231 Azurion 3 M12

Qty	Product	
1	NNAT007 Azurion 3 F12.	
1	NCVD067 Clarity/Q	
-2	FCV0824 video WCB on rear side 1st MCS	
1	FCV0812 live/ref slaving for ER	:
8	FCV0588 Isolated Wall Connection Box	:
1	NCVD100 Left Ventricular Analysis	
1	NCVA783 table pivot option	
1	NCVD029 FlexVision XL	:
1	NCVD089-Zero Dose Positioning	:
1	FCV0510 Long mattress cardio	
1	459800706722 MONITOR CEILING CARRIAGE	:
1	459800938361 Clip rails for MCC (390cm)	
-1	980406041009 Rad Shield w/ Arm (Contoured) 61X76	
1	989801220012 Cable Spooler	
- 1.	989801220273 Ceiling Track w/Column & Handle Ext	
1	989801220397 Lamp Y LED 1F	
1	989801220388 Lower Body Protection	
1	NNAE597 IXR Dynamic Coronary Roadmap OnSite Education	
1	989801220514 - Compact Low Load Fluoro UPS - Standard	
1	989600213942 AD5 TO XPER TABLE ADAPT. PLATE	
1	SEBLRSVNP1 Customer Note	

Options

Qty	Product
1	NNAE751 Intrasight Interventional 5
1	NCVC542 Dynamic Coronary Roadmap
1	989801220158 Mark 7 Arterion, Table Mount

	100231	Azurion 3 M12		
System Type: Freight Terms: Warranty Terms:	New FOB Destination Part numbers beginning with two (2) asterisks are third (3rd) party items.	(**) are covered by a System	m 12 Months Warranty, All	other part numbers
Special Notations:	Contingencies must be removed 120 days be Any rigging costs are the responsibility of the		assure delivery on specified	J date.
Additional Terms:	The specific Contract # referenced above rep fees and any specific terms and conditions, in			
Line # Part #	Description	Qty	Each	Price
1 **NNATC Azuric	07 Azurion 3 F12. on 3 F12	1	\$406,194.48	\$406,194.48

Multipurpose interventional X-ray lab for performing full range of mainstream and complex cardiac and mixed interventions.

Key benefits

See superb anatomical details with the 12-inch detector that offers an up to 39% bigger field of view with same projection flexibility

Upgradeable platform to grow your service line over time:

· Intuitive user interaction delivering an easy to use, easy to learn system

Optimized utilization of your lab by procedure based workflow

Expanding reach

With our Live Image Guidance, we aim to remove barriers to safer, effective and reproducible treatments, delivering clinical value where it's needed most - at the point of patient treatment. Intelligent and intuitive integration of live imaging, patient information, and procedure-based applications optimize real time therapy guidance.

This is a highly versatile yet compact X-ray suite designed to handle a variety of cardiovascular procedures at an excellent pace. This system combines ease-of-use and reliability with essential functionality for diagnostics and interventions for cardiovascular diseases. This future proof solution is designed around a single, standardized hardware and software platform that can be upgraded and expanded as new needs arise or requirements change. Its architecture is made to easily integrate with third party applications and devices. A new workflow approach aims to support interventional teams in carrying out procedures for their patients, consistently and efficiently with great ease of use.

The Philips Azurion 3 Series uses a range of Procedure Cards to help optimize and standardize system set-up for your cases, from routine to mixed procedures.

Procedure Cards can increase the consistency of exams by offering presets (e.g. most-frequently used, default protocols and user-specified settings) on procedure-, physician- or departmental level.

The Philips Azurion 3 Series interventional X-ray suite has been specifically designed to save time by enabling the interventional team to work on all activities in the exam room at the same time - without interrupting each other. This leads to higher throughput and faster exam turnover help to minimize preparation errors.

Specifications

	100231 Azurio	
Line # F	Part #	Qty Each Price
	The Philips Azurion series contain a number of feature procedural workflow.	es to support a flexible and patient centric
	The Philips Azurion series (within the limits of the use to perform:	d Operating Room table) is intended for use
	 Image guidance in diagnostic, interventional and mir following clinical application areas: vascular, non-vasc 	
	 Cardiac imaging applications including diagnostics, i procedures. 	nterventional and minimally invasive surgery
	The Philips Azurion 3 F12 system comprises five func	tional building blocks:
	1. Geometry	
	2, X-ray Generation	
	3. Image Detection	
	4. User Interface	
	5. Viewing	
	Each functional building block is explained in further d	etail including accessories
	1. Geometry	· · · · · · · · · · · · · · · · · · ·
	A 3 F12 stand	:
	The floor mounted Poly Diagnost G stand offers a full configuration comprises the following features;	range of cardiac projection possibilities. This
	A motorized dedicated cardiac floor-mounted Poly-Dia and manually operated) allows parking to provide a cl the Poly Diagnost G stand is provided with electronic	ear area around the patient table. Parking of
	All stand movements are motorized. In addition, the boot of the flat detector.	alanced FD-shift allows manual positioning
	Motorized Angulation and Rotation of the Poly Diagno	st G-arm allow high-speed operation.
	 The motorized base rotation movement makes positi also features comfortable, single operator control of st The motorized base rotation has a movement speed 	and parking.
	The projection angles for the Poly Diagnost G-arm:	

- Rotation 120 degrees LAO to 120 degrees RAO
- Angulation 45 degrees cranial to 45 degrees caudal

Line # Part # Description Qty Each Price
Motorized stand movements with variable speed and configurable max speed, allowing:
Rotation up to 25 degrees
Angulation up to 18 degrees
The depth of the Poly Diagnost G arm is 105 cm, providing comfortable head to groin coverage while the C-arc remains in the head position.
The BodyGuard is a detection system for automatic safeguarding of patient and equipment. This detection system senses objects close to the detector and subsequently limits system movements. Therefore, the Philips Azurion F12 adapts to the actual size of the patient and allows taking full advantage of the high-speed movements. The variable source image distance between focus and Dynamic Flat Detector input screen is 890 to 1235 mm. The Dynamic Flat Detector is counter-balanced which means it can be positioned both manually and motorized.
B. Patient Support
The patient table standard provides very light manual float movement, even for heavy patients, thanks to the mono-bearing technology. The long flat carbon fiber tabletop provides ample space to place e.g. catheters and guidewires. It comprises:
Table top length of 319 cm including OR rails (316 cm excluding OR rails), width of 50 cm
Metal-free cantilever 125 cm
 Floating table-top movement of 120 cm longitudinal and 2 x 18 cm transversal
Motorized height adjustment from 74.5 - 102.5 cm
 Maximum load: 275 kg (up to 250 kg patient weight plus 25kg accessories or 225kg patient weight plus 50kg accessories) plus 500 N for CPR in any longitudinal position of the table top Table accessory set includes:
• 3 rail accessory clamps,
 A patient mattress. A slow recovery foam mattress with a Density of 58 kg/m3. The mattress has a thickness of 5 cm and adapts to the body shape of the patient. It divides the pressure equally and recovers when the patient is taken off the mattress. The light yellow cover is easy to clean. Patients are more relaxed due to the comfort of this mattress, supporting long interventional procedures.
• Drip stand
Set of cable holders
Quotation #: 1-21HT3N8 Rev.: 6 Page 6

100231 Azurion 3 M12

10023	1 Azurion 3 M12
Line # Part # Description Patient straps	Qty Each Price
Arm Support Board	:
Set of Elbow Supports	
Lower Body Protection	:
Black anti-fatigue floor mat w/logo	
Prep Table for Volcano	

Prep Table for Volcano prepares the table with the cabling needed for an integrated version of the Volcano IntraSight system. This preparation will facilitate the installation of the integrated system and reduce the cable clutter around the table. The user interface can be placed on the table OP rails, while the Volcano IntraSight unit is typically placed in the control room. The Volcano IntraSight Bedside Utility Box (BUB) that is used to connect the IVUS and FFR PIM cables can be stored on the Auxiliary OP-Rail mounted at the foot of the table base.

The Prep Table for Volcano option cannot be purchased in combination with Swivel AND Prep Table for Table Mount Injector.

Content:

- OP rail at table foot
 - Cables

2. X-ray Generation

A. Generator

The 3 F12 system comprises an integrated, micro-processor controlled Certeray generator based on high frequency converter technique. The user interface control of this X-ray Generator is incorporated in the touch screen module, review module, and the on-screen displays. The Certeray generator comprises:

- X-ray generator 100 kW
- Voltage range is 40 125 kV
- Maximum current 1000 mA at 100 kV
- Maximum continuous power for fluoroscopy: 1.5 kW

Program selection:

100231 Azurion	3 M12
Line # Part # Description	Qty Each Price
 Pulsed X-ray up to 3,75, 7.5, 15, 30, 60(optional) fractional 	ames/s for digital dynamic exposures
Pulsed X-ray for pulsed fluoroscopy (30 15 7.5 3. settings))	75 1.875 1.0 0.5 img/s (non Clarity
Minimum exposure time of 1 ms	
 ECG triggered acquisition: allows acquiring one expo delay time (optional) 	sure for each QRS peak with selectable
 Automatic kV and mA control for excellent image qua X-ray tube load incorporated in the Certeray generate B. X-ray tube 	
The 3 F12 system has the Maximus ROTALIX Ceramic 0508 integrated.	c grid switch tube assembly MRC200+ GS
The MRC200+ GS 05 08 tube assembly and cooling u comprises:	nit CU 3101 for cardiovascular systems
• 0.5/0.8 mm nominal focal spot values maximal 45 and	d 85 kW short time load
 Grid switching at pulsed fluoroscopy and low load exp improve image quality) 	posure (to eliminate soft radiation and
 Continuous loadability: 3400 W (at 21 degrees C roor continuous heat dissipation) 	m temperature) / 4000 W (= Max assembly
 Application of SpectraBeam dose management Tube housing ROT 1001 for oil-cooled X-ray tube with 	h thermal safety switch
Cooling unit CU 3101 heat exchanger for use in oil-co	ooled X-ray tube systems
Maximum anode cooling rate of 1820 kHU/min	
High voltage cables	
C. System intrinsic	
 Fully digital imaging chain in maximizing the utilization ray tube, flat detector and image processing. 	n and technology of the x-ray generator, x-
 Customizable EPX protocols to each application according composition of dose rate, pulse speed, filter setting, an adaptive contour enhancement, adaptive harmonization 	id image processing (noise reduction,
 Built-in SpectraBeam filtering of low energy radiation efficiency with MRC200+ X-ray tubes. 	to improve image quality and dose
Pre-filters of 0.2, 0.5 and 1.0 mm CU equivalent	

100231 Azurion 3 M12
Line # Part # Description Qty Each Price
Automatic cardiac wedge positioning
 X-ray depth collimator with single semi-transparent wedge filter with manual and automatic positioning.
 Xper Beam Shaping, which means that both shutters and wedges can be positioned on the last image Hold without the need for X-ray radiation.
 Xper Fluoro Storage, a grab function allows storage and archiving of both a fluoro image or the last 20 seconds of fluoroscopy run. These images or runs can be archived and reviewed as a regular run.
D. User selections
Removable anti-scatter grid to lower x-ray dose for pediatrics (grid ratio 12.1)
 ECG triggered acquisition, offering the possibility to acquire images at the same phase of the heart cycle. This applies to the low dose fluoro and exposure program for EP applications. This allows patient dose reduction by lowering the pulse rate to 1 pulse per heart and let the physician still focus on relevant items (optional)
 Three programmable fluoroscopy modes can be selected from the control module. Each mode has a different composition of dose rate, pulse speed, filter setting, and image processing (noise reduction, adaptive contour enhancement, adaptive harmonization) E. User dose awareness
On-system monitor display provides and displays body zone specific Air Kerma data (10 zones for cardiac applications) in numeric and graphical bars.
 Graph displays the accumulated Air Kerma dose for the particular body zone of the actual projection
 When the accumulated Air Kerma dose of the particular body zone reaches the critical skin dose level of 2 Gy, it will be indicated on the display and made visible to the x-ray operator.
DoseWise program: Philips DoseWise program is a set of techniques, programs and practices built into the X-ray system that ensures excellent image quality during each interventional application, while at the same time reducing x-ray dose at every opportunity. The DoseWise comprises of three building blocks to help reduce x-ray dose without compromising diagnostic quality: system intrinsic, user selection and awareness.
On-system monitor display provides and displays body zone specific Air Kerma data (10 zones for cardiac applications) in numeric and graphical bars.
 Graph displays the accumulated Air Kerma dose for the particular body zone of the actual projection
 When the accumulated Air Kerma dose of the particular body zone reaches the critical skin dose level of 2 Gy, it will be indicated on the display and made visible to the x-ray operator. Radiation Dose Structured Report
Collection of dose relevant parameters and settings and export to a DICOM database (e.g. PACS) (dose information is sent in MPPS message not as Radiation Dose Structure report), according IEC60601-2-43, 2nd Edition. As an example, the reported data can be used for:
Quotation #: 1-21HT3N8 Rev.: 6 Page 9

100231 Azurion	3 M12
Line # Part # Description	Qty Each Price
 Quality improvement: evaluating trends in X-ray dose operator. RDSR enables analysis of average dose level exams and procedures. Also, typical system usage can identify root causes behind deviations and measures to 	s & variance for routinely performed be extracted from the data, helping to
 Analysis of individual patient cases: using dose levels 	and system usage per procedure
 Alerting for high dose cases, timely identifying patients follow-up. 	at risk or deterministic effects, for proper
Secondary Capture Dose Report	
The Secondary Capture Dose Report function allows th automatically, a patient Dose Report to PACS in DICON	
The dose report will be stored in the related patient ima 3. Image Detection	ge folder.
The image chain with the 12 inch flat panel image detec	tor comprises the following:
• A 28 cm (12 in.) diagonal triple mode Dynamic Flat De fluorography.	tector subsystem for fluoroscopy and cine-
• A 5 modes 11*11/13.5*13.5/16*16/19*19/21*21 [cm] D	ymamic Flat Detector
30, 27, 22, 19, 15 cm (12, 11, 8, 7, 6 inch) diagonal sq	uare formats
The outer detector physical housing is 28.3*28.8 [cm]	
 The digital output of the Flat detector is 1344*1344 pix The pixel pitch is 154 micron by 154 micron 	els at 16 bit depth.
 The DQE(0) is 77% providing high conversion of X-ray high MTF. 	y into a digital image, while maintaining a

Philips Azurion has a storage capacity of 100,000 images at matrix size of 1024 x 1024, 10 bit. A maximum number of examinations is 999, with no limit to the maximum number of images per examination.

Xres is a multi-resolution spatial temporal noise reduction and edge enhancement filter for interventional applications. Xres exploits the full benefits of dynamic digital flat detector imaging to enhance sharpness and contrast and has been designed to reduce noise in fluoroscopy and exposure runs. The settings for Xres Cardio can be customized to improve image quality. Xres is a Philips unique image processing algorithm developed at Philips Research for medical applications. Xres is used with Philips MR and US scanners next to Philips Azurion systems.

4. User Interface

User Interface in Examination Room

The User Interface comprises a variety of User Interface modules in the Examination Room. There is the On-Screen Display, the touch screen module, Viewpad and the control modules.

100231 Azurior	n 3 M12
Line # Part # Description	Qty Each Price
The On-Screen Display is positioned on the left side o information is displayed:	of the live/ref monitor. T he following system
• X-ray indicator	
X-ray tube temperature condition	
 Gantry position in rotation and angulation 	
Source Image Distance	
• Table height	
Table top tilt and cradle angle, if applicable	
Detector field size display	
Concert System management	:
General System messages Selected Frame speed	
Fluoroscopy mode	
 Integrated fluoroscopy time 	
 Skin Dose: dose rate during X-ray, cumulated dose v 	when no X-ray
Dose Area Product: dose rate during X-ray, cumulate	ed dose when no X-ray
 Graphical bars for Body Zone specific dose-rate and 2 Gy level (for cardiac applications) 	accumulated skin dose levels, related to the
O lamonia la h	
 Stopwatch Touch screen module 	
The touch screen module is provided for use either at touch screen module has a touch screen, which can b covers. The touch screen module includes Multi-moda (depending on configuration):	e operated when covered with sterile
 Compatible other equipment (e.g. IntraSight, CX50, I Philips Hemo system) 	Interventional Tools, EchoNav, DoseAware,
Monitor layout (Flexvision, switchable viewing)	
 X-Ray settings (Collimation, Projections, Table, Serie Viewpad 	es and Processing)
The Viewpad contains the preprogrammed function se Viewpads. The following functions are provided:	ettings. The system is provided with two
Run and image selection	:
Quotation #: 1-21HT3N8 Rev.: 6	Page 11

100231 Azun	on 3 M12
Line # Part # Description • File and run cycle	Qty Each Price
File overview	
Store to Reference image file	
Copy image to photo file	
 Digital (fixed) zoom and panning 	
 Recall reference images, which means switching of reference monitor 	control of Viewpad function from life to
 Laser pointer, intended to point at regions of intere 	est on the image monitors
 LED indication of laser pointer on/off and battery lo Control module 	wc
The control module can be positioned at three sides operation intuitively logical. The control module sing	
Tabletop float	
Table height position	
Table tilt angle if function is applicable	
Source Image Distance selection	
Gantry positioning	
 Gantry rotation in an axis perpendicular to the floor 	r i
 Store and recall of two scratch gantry positions inc 	luding SID
 Geometry reset button, which resets stand and tab 	ble to a factory-default starting position
 Emergency stop button 	
Execute button of the Automatic Positioning Control	of (APC) if applicable
 Unlocking button for table pivot function (if option is 	s installed)
 Table tilt and cradle controls (if option is installed) 	
 Fluoroscopy Flavor selection defined per setting 	

+ Shutters and Wedge positioning

100231 Azurior	1 3 M12
Line # Part # Description	Qty Each Price
 Manual or automatic semi-transparent wedge filter 	
Xper Fluoro Storage	
 Selection of the Detector field size 	:
Reset of the fluoroscopy buzzer	
 Roadmap Pro activation if function is available The control module is provided with a protection bar. Turnintended control. 	This removable bar protects the buttons from
Pan Handle	
An optional extension of the control possibilities for flo vascular and neuro systems.	ating movements of the table top in cardio
Key benefits	•
 Flexible positioning during cardio and neuro pro Flexible positioning during cardio and neuro pro 	
To allow more flexible positioning during cardio and ne be used to perform floating table movements. The par and can release and apply the tabletop brakes. It can and accessory rails without affecting the floating range	handle provides a solid grip of the tabletop be attached anywhere along the tabletop
Specifications	
Pan handle with cable and connector	
Table-top attachment clamp	
Accessory-rail attachment clamp	
User Interface in Control Room	
The control room comprises a review module, data co and review functions are controlled by a single keyboa the basic functions for review. The most prominent fun button. The review module comprises the following fur	ard and mouse. The review module offers ictions can be controlled by the push of a
Power on/off	
File and run:cycle	
 File, Run, and Image stepping 	

100231 Azurion 3 M12
Line # Part # Description Qty Each Price
Run and file overview
Reset fluoroscopy timer
• Enable/disable X-ray
• Geo disable
Acquisition monitor. A standard keyboard and mouse control the user interface. The acquisition monitor is intended to follow live case in the ER. System information is displayed on the bottom of the monitor:
Stopwatch and Time
System guidance information
Dose Area Product (DAP) and Skin Dose, as dose rate during X-ray and cumulative dose at no X-ray
 Frame speed settings, fluoroscopy mode, and accumulated Fluoroscopy time
 Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and time (ms)
 Geometry information as rotation, angulation, and SID The acquisition monitor is designed for standard workflow based on scheduling, preparation, acquisition, review, report, and archive. Scheduling
In the scheduling page it is possible to add new patients (either querying from RIS/CIS or by creating patient locally). The patients can be listed and selected per date, physician, and intervention type. Previous DICOM patient studies can be uploaded with the DICOM Query Retrieve function in the Philips Azurion system. Patient management protocols are flexible and allow for multiple studies to be selected under one patient identification number. This means that new studies can be appended to an earlier patient file. Furthermore, each study can contain multiple examinations to allow for split administrative purposes. Each examination contains multiple files, like acquisition file, reference file, and QA results file. Procedure Cards Procedure Cards provide the information of room and patient preparation for each individual physician. Procedure Cards are customizable per setting and allow each physician to provide their own room protocols. Procedure Cards is intended to make hard copies of the protocol instructions
redundant. Acquisition
The acquisition page contains information on the currently selected patient.

Reviewing

The review page allows for reviewing of patients:

Previous examination cases

100231 Azurion 3 M12	
Line # Part # Description Qty Each Price	
Review of other DICOM XA or DICOM SC studies,	
Archiving	
Clinical studies can be archived to a CD/DVD, USB or a PACS. The archive process can be completely automated and customized with settings. Parameters like multiple destinations, archive formats can be selected to the individual needs and wishes for programming under the settings. With Philips Azurion the control room comprises of an acquisition monitor and a review monitor. The review monitor is a 24 inch color TFT-LCD medical grade monitor. The Graphical User Interface on the Review monitor has the following features and possibilities:	
Step through file, run, or images	
File, and run overview	
Contrast, brightness, and edge enhancement settings	
Flagging of runs or images for transfer	
Applying text annotation in images	
DICOM printing if available	
Executing Quantitative Analysis Packages if available	
Subtraction functionality if available	
This system is delivered with printed instructions for use and/or electronic instructions for use, as well as a quick start leaflet. The printed paper instructions for use can also be ordered at no additional cost.	
5. Viewing	
A. Viewing in Examination room	
Philips Azurion systems come with one 27 inch high brightness color medical grade LCD monitor for clinical image display in the Examination room. This LCD monitor is intended for viewing in the examination room and is designed for medical applications. The monitor is used for combined viewing of live images and reference display. Selection and storing of live to reference monitor is controlled by the infra-red remote-control viewpad or via touch screen module.	
The On-Screen Display provides status information on stand rotation-angulation, table height, display of system messages, X-ray tube load status, selected fluoroscopy mode, selected detector Field of View, and both the rate and accumulation of the dose area product and Air Kerma dose.	
The main characteristics are:	
27 inch high brightness color TFT-LCD display	

- Native format 1920x1080 Full HD
- 10 bit gray-scale resolution with gray-scale correction

100231 Azurion 3 M12
Line # Part # Description Qty Each Price • Wide viewing angle (approx. 178 degrees)
 High brightness (max 650 Cd/m2, default 400 Cd/m2)
Long term luminance stability through backlight stabilization circuit
 Automatic brightness control with backlight sensor Control functions on side
User programmable and standard reference setting
On-Screen Display
 Internal selectable lookup table for gray-scale transfer function, including DICOM
Internal power supply (100-240 VAC)
 Integrated LCD protection screen If applicable included is a flat monitor ceiling suspension for 2 monitors (2F MCS). MCS includes motorized height adjustment. The Ceiling suspension allows flexible monitor positioning over a range of about 360 x 300 cm. B. Viewing in Control room
Philips Azurion includes two 24 inch high brightness color LCD monitors. The color monitors are for acquisition and reviewing display.
The main characteristics for color monitor are:
• 24 inch color TFT-LCD display
Native format 1920x1080 Full HD
High brightness (max 400 Cd/m2, default 350 Cd/m2)
Wide viewing angle (approx. 178 degrees)
Long term luminance stability through backlight stabilization circuit
 Automatic brightness control with backlight sensor Control functions on side
User programmable and standard reference setting
On-Screen Display
 Internal selectable lookup table for gray-scale transfer function, including DICOM
Internal power supply (100-240 VAC)
Quotation #: 1-21HT3N8 Rev.: 6 Page 16

100231 Azurion 3 M12

Qty Each

Price

Line # Part # Description

Integrated USB hub

A Philips Azurion system includes the DICOM Image Interface which enables the export of clinical images to a DICOM destination like a CD-Medical station or a PACS server. The export formats are based on DICOM 3.0 protocols. The system exports clinical studies in Cardiac DICOM XA Multi-Frame or DICOM Secondary Capture formats.

The DICOM Image Interface transfers through its fast Ethernet link, making images available online within seconds. The archive process can be configured by X-ray settings. The images are sent out either in the background, or manually upon completion of the examination. The export format is configurable in 512x512 or 1024x1024 matrix in 8 or 12 bit depth. The examination can be sent to multiple destinations for archiving and reviewing purposes. The DICOM Image Interface provides DICOM Storage and DICOM Storage Commitment Services. The DICOM Query/Retrieve function allows older DICOM XAMF and DICOM SC studies to be uploaded in the system. Furthermore, additional information can be appended to a study while keeping the patient identification the same.

Intercom

Enhance communication between exam room and control room

The remote intercom is used to communicate between the examination and control room. A separate intercom can be connected to the system and placed in the preferred working position in the control room or examination room. The listen function can be selected separately on each intercom. Activating the talk function on a selected intercom automatically disables this function on the other intercom.

Uninterruptable Power System (UPS)

Ensures data integrity

A power failure of the hospital mains during an intervention can cause loss of data. If this occurs, the single phase Uninterruptable Power System (UPS) enables a proper shut-down of the X-ray system processor units.

Specifications

In case a full three phase UPS is selected, the single phase UPS is not delivered/required.

Security

The Philips Azurion system runs on the Windows 10 Operating system and offers features such as OS Hardening, AppLocker, & BitLocker functionality

Remote service

Access to the system from a Remote location is possible via network or modem connection. Remote access to a system can shorten the time needed for e.g. changing system settings or problem diagnosis. Environmental

At Philips Healthcare, we feel the responsibility towards society and the environment. The latest 3 F12 system is a perfect example of our EcoVision program. By examining every aspect of the 3

			31 Azurioi	i 3 M12		
Line #		Description	n na herringe særne. Men	Qty	Each	Price
	F12 design and de environmental impa	velopment through a g act.	green eye, we	drastically reduced	d the products	
	Full System APC					
	Store and recall sta	and-related positions				
	Helps to save time	and manage X-ray do	se with auton	atic positioning		
	a great deal of time and manage X-ray way for interventior can select a seque	ay system to visualize and many scout imag dose while working, th nal team members to s nce from a pre-defined the position to be reca	jes during int le Automatic store and reca d list or from p	erventional procedu Position Controller III stand & table rela	res. To help save t (APC) provides an ated positions. Ope	ime easy rators
	Specifications			:		
	Different modes of	Automatic Positioning	Control for sy	stem are defined:		
	* Store / Recall: for * Image Reference: recalled * Image Reference	alling a list of user cus storing and recalling s an image is used to o 3D: an image from a 3 define a new point of f is table position.	stand position determine the 3D work spot	s during system us stand & table posit is used to recall.	e. lion that has to	be v∙iso-
	Quantitative Coro	nary Analysis		-		
	Key benefits					
	 Aids confident dec 	e quantification of coro ision making for devic ency with single click t	e selection, a	pproach angles an	d foliow-up	
	Easily obtain object	ive assessment of cor	onary artery			
	2D quantitative corc	-making and al low as phary analysis support glographic images, W	s quantification	on of coronary arter	y dimensions of ab	out 1
Quotati	on #: 1-21HT3N8	Rev.: 6				Page 18

	100231 Azurion	3 M12
Line #	Part # Description	Qty Each Price
	visualization of the obstruction, healthy vessel, referen area is created.	ce diameter, stenosis diameter and plaque
	Specifications	
	Automated accompatibles of coloring company	
	 Automated segmentation of selected coronary Diameter measurement along the selected segment 	
	 Automated obstruction analysis Stenosis diameter, stenosis length 	
	 % stenosis diameter, % stenosis area Automated and manual calibration routines 	
	Store result page	:
	Analysis of the targeted vessel segment has been simp the mouse on or close to the stenotic area and click on visualization shows the obstruction, healthy vessel, ref plaque area.	ce to detect the relevant segment. The
	RIS/CIS Interface	
	This package allows communication of the X-ray syste RIS).	m with a local information system (CIS or
	Key benefits	

- Reduce errors in patient information.
- Facilitate X-ray dose management

Reduce data errors and facilitate X-ray dose management

Connecting the X-ray system with your local information system (CIS or RIS) helps streamline exam workflow and promote radiation management. The RIS/CIS DICOM interface package allows your X-ray system to communicate with a local CIS or RIS information system. The interface uses the DICOM Worklist Management (DICOM WLM) and Modality Performed Procedure Step (DICOM MPPS) standards.

If a hospital has an X-ray system and an information system it can receive patient and examination request information from the information system and report examination results to:

Eliminate the need for retyping patient information on the X-ray system

• Prevent errors in typing patient names and registration numbers (ensuring consistency with IS information to prevent problems in archive clusters or to search for a name in case of later retrieval)

 Inform the information system about the acquired images and radiation dose for each examination

.....

	100231 Azurion	3 M12
Line # Pa	art # Description	Qty Each Price
	Specifications	• •
:	Upon request from the X-ray system the complete wor examination data is returned from the IS to the X-ray s information will be shown on the -ray system after it ha	ystem. For each patient the following
	 Patient Identification: Patient name, Patient ID, Birth Examination/Request Information: Accession number scheduled performing physician's name 	
	It is possible at all times to enter patient demographics system in case of an emergency or in case the local In	
	On request of the clinical user the X-ray system will repselected patient to the IS:	port the following information about the
	 Patient Identification: Patient name, Patient ID, Birth Examination/Request Information: Accession number date and time, Performing physician's name, Reference Radiation dose: Total time of fluoroscopy, Accumulate dose, Total dose, Total number of exposures, Total nur 	r, Performed procedure step status start/end ed image sequence ed fluoroscopy dose, Accumulated exposure
	Further detailed information can be found in the X-ray The interface requires an EasyLink (hardware and soft DICOM WLM and DICOM MPPS.	system DICOM Conformance Statement. ware) if the RIS/CIS is not compliant with
	Contrast Injector Interface	
	Simplify contrast injection timing and enhance imaging	results.
	The Contrast Injector Interface allows the injection of c acquisition. This simplifies contrast injection timing dur	
	Specifications	· · · · · · · · · · · · · · · · · · ·
	The Contrast Injector Interface allows injection of controlled by the X-ray ON button. The timing of the X-programmable.	

100231 Azurion 3 M12	
Line # Part # Description Qty Each Pri	Ce

Clinical Education Program for Azurion System:

The purchase of the Azurion System includes a StartRight entitlement pool that allows for the customized delivery of educational events to improve staff time to proficiency, knowledge on system features, and improve overall lab efficiency. For new users, the recommended series of educational events includes:

Essentials OffSite Education: Philips will provide up to two (2) Cardiovascular Technologists, Registered Technologists, Registered Nurses, or other system operator as selected by customer. with in-depth didactic, tutorial, and hands-on training covering basic functionality and workflow of the cardiovascular imaging system. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation. This twenty-eight (28) hour class is located in Cleveland, Ohio and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. This class is a prerequisite to your equipment handover OnSite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. In the event that an EP Navigator workstation has also been ordered, the offsite training course will be tailored to focus on the electrophysiology functionality of the FD system and the EPN workstation. Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292102 (CV Full Travel Pkg OffSite) is purchased with all OffSite courses.

Initial Handover OnSite Education: The primary Philips Education Specialists will provide twentyeight (28) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours, and must include the two OffSite education attendees. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. It is highly recommended for systems that are fully loaded or for customers with a large number of staff members to also purchase 989801292099 (CV Add OnSite Clin Educ 24h).

FollowUp OnSite Education: Philips Education Specialists will provide sixteen (16) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 16 hours, and must include the two OffSite education attendees. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Assessment OnSite Year 1: The primary Philips Education Specialist will perform a two day onsite assessment at the customer site on or close to the first anniversary of the Initial Handover. The Specialist will assess through various means not limited to; physical observation of procedure workflow, tool usage, data analysis and staff interviews. The Specialist will then review findings with department head and make recommendations thereof. The Specialist may perform refresher training if required.

Education expires one (1) year from installation date (or purchase date if sold separately).

2	**NCVD067	ClarityIQ	:	1	\$72,988.20	\$72,988.20

		100231 Azi	urion 3 M12		
Line	# Part #		Qty	Each	Price
		wer dose- across clinical areas, pa			
	 Enhanced w 	imaging at low dose levels ork environment for staff through a atment options – enables longer pri e			ents
	Interventions the need for h harder to posi increased dos	fidence every time are becoming increasingly complex igh resolution imaging. New device tion them precisely. The prevalence e levels to visualize anatomy. All of interventional X-ray with AlluraCla	es can be more diff e of patients with a f these factors insp	icult to visualize, making high BMI can also requ	g it lire
	treatment. Wh	ith its unique ClarityIQ technology at's more, you can confidently mar g. In short, you can see what you h	nage low X-ray dos	e levels without changing	
	Specification ClarityIQ tech - Noise and ai - Image enhar - Automatic re - A flexible dig - Over 500 clin radiation and		K-ray systems with ructures and objec rrection on live ima isplay that is tailore rs making it possib	AlfuraClarity. It offers: ts ages ed for each application a le to filter out more X-ra	ay
		for pulsed fluoroscopy 5 3.125 2.5 1.25 0.625 img/s			
3	**FCV0824	video WCB on rear side 1st MCS	2	\$4,678.92	\$9,357.84
		Connection box on the rear side of external video source on a monitor			the
	Specification A wall connec WCB's (option attached to re	ct external video in the exam room s tion box to connect external video () can be attached on the rear side ar side of 1st MCS) can be used to cable boxes can be attached.	(input only), USB a of the 1st MCS wit	h a bracket. A cable bo	x (also
4	**FCV0812	live/ref slaving for ER g for Exam Room.	1	\$4,708.44	\$4 ,708.44
	Simplify worl Having patien	y any data or clinical information ne kflow with flexible viewing contro t data and clinical information easil fliciency during interventions. The l	ol y available on scre	en can enhance decisio	

......

		100231 Azur	ion 3 M12		
Line	# Part #	Description	Qty	Each	Price
		ideo source from the X-ray system. ix 5, minus the number of FCV0807			can be
	- On Philips M	s g for ER is possible: CS (additional monitor excluded from on with FCV0519 1 or 2 MCS from S			
5	**FCV0588	Isolated Wall Connection Box	8	\$1,214.01	\$9,712.08
	Isolated Wall (the examination	Connection box to support the displa on room.	y of an external	video source on a moni	tor in
		o from other modalities on the interve ernal video in the exam room	entional X-ray su	ite:	
	Many interven interventional facilitates con of the video si	video to other locations tional facilities use video to record a X-ray suite for training or presentation nection of the video source via a star gnal over the approximate 30 meter som or in the control room, depending	on purposes. The ndard DVI cable/ long cable. It ca	 Video Wall Connection (connector and lossless n be mounted in the 	n Box
	For each video For each video For each video For each 3rd p Note: No VWCB is n following sourd 1) Live/ref Sla 2) Intervention	if the VWCB's has to be calculated a o signal via MultiVision: 1 VWCB (ma o signal to FlexVision XL on Cardio S o signal to FlexVision XL on Vascular party video signal directly connected equired in case a video signal is con ces:	ax = 4) System: 1 VWCE r System: 1 VWC to an LCD in the nected directly t	CB (max = 8) MCS: 1x VWCB. o a dedicated LCD from	
6	**NCVD100	Left Ventricular Analysis	1	\$8,531.28	\$8,531.28
		itative quantification of left ventricula efficiency with single click functions			
	To support dec interventions, volumes and lo	objective assessment of coronary cision making and allow quantitative the 2D Left Ventricular Analysis optic ocal wall motion from angiographic s on parameters in different formats. V and manually.	assessment of a on supports quar eries. It calculat	ntification of left ventricules the ejection fraction	
	Specification • Various LV-v	s olumes: ED, ES, Stroke Volume	: : :		

100231 Azuric			
	and and the		
e # Part # Description • Ejection Fraction • Cardiac Output • Centerline Wall Motion • Slager Wall Motion • Automated and manual calibration routines • ECG visualization facilitates image selection for an • Store result pages	Qty alysis	Each	Price
 **NCVA783 table pivot option Flexible positioning for upper extremity angiograph Easy patient transfer Flexible positioning and transfers Transradial access, upper extremity angiography, and 	- : - - -	\$3,800.70	\$3,800.70
with our optional Pivot feature. One finger push-to-pi moves with less friction, making it easier to move lar tabletop in place to prevent it from moving.	ivot allows effor	tless patient positionin	g, It
**NCVD029 FlexVision XL	1	\$80,589.60	\$80,589.60
Key benefits • Easily display multiple, up to 8, video inputs (includ making during procedures • Create custom display templates to support diverse • The screen layout of the FlexVision XL can also be • Enlarge images to reveal more details and support	e procedures changed from	the control room	ision
Diagnostic information easily made available at t In today's interventional setting, as you perform more complex anatomy, you rely on various types of diagn decision making in the exam room, Philips offers an You can display multiple images in a variety of custo and out to enhance fine details, while maintaining an display templates for specific procedures/physician p procedures. Specifications 1. DVI video composition unit. The DVI video composition unit allows the user to dir	e complex proc nostic informatic advanced digita m layouts on a overview of all preferences to e rect and switch	on to guide you. To info al workspace called File large LCD screen: Zoo l information. Create cu easily support diverse the video output of all	orm exVision, om in ustom
connected medical equipment to specific sub window backlight in the Examination Room. • The DVI video composition unit is operated from th • The DVI video composition unit supports a wide va • Up to 11 external inputs are connected to the DVI v or boxes.	e touch screen riety of display	module. formats (up to 1920x1)	200)
 Medical grade, high resolution color LCD in the Ex This display supports the image quality requirements color images and replaces all displays normally deliv Room. 	s for monochror	ne X-ray images as we	
Main characteristics are: - 58-inch, 8 Megapixel color LCD - Native resolution: 3840x2160 - Brightness: Max: 700 Cd/m2 (typical) stabilized: 40 - Contrast ratio: 1:4000 (typical) - Wide viewing angle (approx. 176 degrees)	0 Cd/m2		
otation #: 1-21HT3N8			Page 24 of 33

		100231 Azurio	n 3 M12		
Line #	Part #	Description	Qty	Each	Price
	 Constant brightr Lookup tables for 	ness stabilization control or gray-scale, color and DICOM tran creen Ingress Protection: IP-21	sfer function		
	3. Large color LC	D control (touch screen module) tion at any stage during the case via	a the touch scr	een module in the Exar	mination
	 Select viewing I Create new layor Adjust the screet 20 layouts; each 	ay-outs via the touch screen module outs by matching inputs to desired lo in layout during the procedure witho a layout is customizable, size of view a with all X-ray details	ocations on pre out going into c	eset templates. onfiguration	r X-ray
	providing highly fl and moveable ald	suspension ispension for use in the Examination exible viewing capabilities. The mor ong ceiling rails. It can be positioned	nitor ceiling su	spension is height-adju	
		action allows the user to store/save a a photo image to the current acquis			
9	**NCVD089	Zero Dose Positioning	1	\$6,848.64	\$6,848.64
	Key benefits Manage radiation 	on usage by moving to region of inte	rest on Last In	nage Hold without fluor	0.
	To manage radial the last recorded Specifications Before a new acc	without using fluoroscopy tion dose, you can move the stand a clinical image before a new acquisi quisition is started the operator can i will be irradiated when the next X-m	tion is started, move the stand	without any radiation.	
10	**FCV0510	Long mattress cardio	1	\$457.56	\$457.56
	 Enhances patie Adapts to the sh 	nt comfort hape of the patient's body			
	To enhance patie is extra-long to a	t comfort during cardio exams nt comfort during cardio exams, the ccommodate the patient on the table re within the mattress is evenly dist	etop, and adap	ts to the shape of the p	atient's
	Dimensions of th Length: 3165mm Width: 500mm Height: 70mm Radius: 150mm				
11	**459800706722	MONITOR CEILING CARRIAGE	. 1	\$5,564.52	\$5,564,52
	Monitor ceiling ca	arriage			
12	•	Clip rails for MCC (390cm) length 390 cm. naterial for 200 cm track pitch.	1	\$1,066.41	\$1,066.41
			:		

		100231 Azurior	3 M12		
ine #	Part #	Description	Qty	Each	Price
3	**980406041009	Rad Shield w/ Arm (Contoured) 61X76	. 1	\$2,169.72	\$2,169.72
	Contoured Rad S	Shield with Arm rest. 61X76			
4	**989801220012	Cable Spooler		\$298.89	\$298.89
5	**989801220273	Ceiling Track w/Column & Handle Ext	1	\$3,254.58	\$3,254.58
	Mavig 2.5m Ceili	ng Track with Ceiling trolley, 360 degr	ee column, a	nd brake handle exten	sion.
6	**989801220397	Lamp Y LED 1F	1	\$2,214.00	\$2,214.00
	LE7017100 Lam	p YLED-1F with Portegra2 extension/	spring arm 75	50/910 mm	
	Technical Data a	nd Specifications			
	Colour temperate Colour rendering Focusable light f Electronic bright Sterilisable hand	nsity (at 1 m distance) 70,000 lx ure 4100 ± 200 K index at 4100 Kelvin (CRI) Ra 95 ield size 140 – 250 mm ness control 50% – 100% le Yes rease in head area 0.5 K			
	– Power consumpt Mains voltage and frequency 1 at 50 – 60 Hz		•		
	Number of LED t Lifetime of LEDs Working area 70 Height adjustmer Lamp dimension Housing colour F	50,000 h - 140 cm nt (on Portegra2 spring arm) 117 cm s 28 x 36 cm			
	Housing – Protec Fire protection cl Medical Product	s Directive 93/42/EEC Yes DIN VDE 0100-710 Yes	is compliant		
7	**989801220388	Lower Body Protection		\$1,276.74	\$1,276.74
	UT70-10WS Low	ver body protection, width 1410 mm in	ici. wide exte	nsion	
		ection of the model series UT70 with a or the physician and staff	a modular de:	sign to provide a maxin	nized
8	**NNAE597	IXR Dynamic Coronary Roadmap OnSite Education	1		

		100231 Azurio	on 3 M12		
Line #	Part #	Description	Qty	Each	Price
	up to four (4) stu as necessary. (6 guidelines for mo responsible for a to demonstrate p	Systems Clinical Education Specialis dents, as selected by customer, incl CEU credits are not available for this ore information. Note: Site must be ctual patient contact or operation of roper equipment operation.	uding technol portion of trai patient ready. equipment du	ogists from weekend/nig ining. Please refer to Philips personnel are i iring education sessions	pht shifts not
	separately). Ref	s one (1) year from equipment insta #296309-20170315 uires the purchase of Dynamic Coro			
19	 Compatible with 20kVA (80kVA) Input Breaker F Output Switch in Remote Alarm for UPS Network Manager 	Status Panel (RASP) – Touch scree gement Cards with external Triple Cl p Service (5x8, Normal business Ho	input 20kVA 4 n for UPS mo nassis for Opt	nitoring with Dry contact	t cards
	Compatible with	Allura R8.2 and Azurion R1.1 and R	1.2 IGT imagi	ng systems	
20	**989600213942	AD5 TO XPER TABLE ADAPT. PLATE	· · 1	\$1,590.39	\$1,590.39
64		Overen Nefe	1		
21		Customer Note The net price in the configured solution enMarkets special discount.	· -	in this quotation is reflec	tive of

Avante Health Solutions

Avante Health Solutions agrees to purchase the equipment listed below for a total price of \$10,000.

2008 GE Innova 2100 with 2016 MX160 X-ray tube.

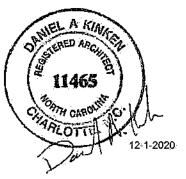
This offer is based on inspection of the unit and assumes the equipment is fully functional. Upon inspection and verification that the system is fully functional, Avante will send payment prior to the deinstallation of the equipment.

Customer Acceptance:		Date: Date:	
Avante Health Solutions:	lealth Solutions:		

ATTACHMENT B – Projected Capital Cost Form

Projected Capital Cost Form NH Presbyterian Medical Center Cath Lab #3 Replacement

Building Purchase Price		
Purchase Price of Land		
Closing Costs		:
Site Preparation		
Construction/Renovation Contract(s)	\$ -	686,890
Landscaping		
Architect / Engineering Fees	\$	69,500
Medical Equipment	\$	653,520
Non-Medical Equipment	\$	435,826
Furniture	\$: –
Removal of Existing Equipment	\$	10,000
Financing Costs		
Interest during Construction		
Other: Contingency	\$	99,509
Total Capital Cost	\$	1,955,245



Date Signed: 12-1-2020

CERTIFICATION BY A LICENSED ARCHITECT OR ENGINEER

I certify that, to the best of my knowledge, the projected construction costs for the proposed project is complete and correct.

miel A. Kinhen

Signature of Licensed Architect or Engineer

CERTIFICATION BY AN OFFICER OR AGENT FOR THE PROPONENT

I certify that, to the best of my knowledge, the projected total capital cost for the proposed project is complete and correct and that is our intent to carry out the proposed project as described.

Matthew Stiene	Date Signed:	12/02/2020 10:12:1
Signature of Officer/Agent		
Vice President, Construction & Engineering, Novant Health		
Title of Officer/Agent		

ATTACHMENT C – NC Equipment Comparison Form

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NH Presbyterian Cath Lab Room 3	EXISTING EQUIPMENT	REPLACEMENT EQUIPMENT
Type (e.g., Cardiac Catheterization, Gamma Knife®, Heart-lung bypass machine, Linear Accelerator, Lithotriptor, MRI, PET, Simulator, CT Scanner, Other Major Medical Equipment)	Cardiac Cath	Cardiac Cath
Manufacturer	GE	Philips
Model number	Innova 2100 IQ	Azurion 3 F12
Other method of identifying the equipment (e.g., Room #, Serial Number, VIN #)	Cath Lab #3, Serial # (001771)	TBD
Is the equipment mobile or fixed?	Fixed	Fixed
Date of acquisition	3/1/2008	TBD
Was the existing equipment new or used when acquired? / Is the replacement equipment new or used?	New	New
Total projected capital cost of the project <attach a="" capital="" cost="" equipment="" for="" form="" new="" projected="" signed=""></attach>	n/a	\$1,955,245
Total cost of the equipment	n/a	\$653,520
Location of the equipment <attach a="" equipment="" for="" if="" mobile="" necessary="" separate="" sheet=""></attach>	Cath Lab #3	Cath Lab #3
Document that the existing equipment is currently in use	Dee LRA	NA
Will the replacement equipment result in any increase in the average charge per procedure?	NA	No
If so, provide the increase as a percent of the current average charge per procedure	NA	NA
Will the replacement equipment result in any increase in the average operating expense per procedure?	NA	No
If so, provide the increase as a percent of the current average operating expense per procedure	NA	NA
Type of procedures performed on the existing equipment <attach a="" if="" necessary="" separate="" sheet=""></attach>	Cardiac Cath Procedures	NA
Type of procedures the replacement equipment will perform <attach a="" if="" necessary="" separate="" sheet=""></attach>	NA	Cardiac Cath Procedures

Date of last revision: 5/17/19

ATTACHMENT D – 2020 License Renewal Excerpt

All responses should pertain to October 1, 2018 through September 30, 2019.

8. Specialized Cardiac Services continued (for questions, call Healthcare Planning at 919-855-3865)

Cardiac Catheterization, as defined in NCGS 131E- 176(2g)	Diagnostic Cardiac Catheterization**	Interventional Cardiac Catheterization***
1. Number of Units of Fixed Equipment		2)
 Number of Procedures* Performed in Fixed Units of Patients Age 14 and younger 	n Ø	Ø
 Number of Procedures* Performed in Fixed Units of Patients Age 15 and older 	n 1178	830
4. Number of Procedures* Performed in Mobile Units	Ø	ø
Dedicated Electrophysiology (EP) Equipment		
5. Number of Units of Fixed Equipment		3
6. Number of Procedures on Dedicated EP Equipment	12	-45

b. Cardiac Catheterization and Electrophysiology

*A procedure is defined as one visit or trip by a patient to a catheterization laboratory for a single or multiple catheterizations. Count each visit only once, regardless of the number of diagnostic, interventional, and/or EP catheterizations performed during that visit. For example, if a patient has both a diagnostic and an interventional procedure in one visit, count it as one interventional procedure.

** "a cardiac catheterization procedure performed for the purpose of detecting and identifying defects or diseases in the coronary arteries or veins of the heart, or abnormalities in the heart structure, but not the pulmonary artery." 10A NCAC 14C .1601(9)

*** "a cardiac catheterization procedure performed for the purpose of treating or resolving anatomical or physiological conditions which have been determined to exist in the heart or coronary arteries or veins of the heart, but not the pulmonary artery." 10A NCAC 14C .1601(16)

Number of fixed or mobile units of <u>grandfathered</u> cardiac catheterization equipment owned by hospital (i.e., equipment obtained before a CON was required):

NA

For questions, please contact Healthcare Planning and Certificate of Need at 919-855-3873.

CON Project ID numbers for all <u>non-grandfathered</u> fixed or mobile units of cardiac catheterization equipment owned by hospital:

F-3472-98 F-5975-99

Name of Mobile Vendor, if not owned by hospital:

Number of 8-hour days per week the mobile unit is onsite: N/A 8-hour days per week.

(Examples: Monday through Friday for 8 hours per day is 5 8-hour days per week. Monday, Wednesday, & Friday for 4 hours per day is 1.5 8-hour days per week)

NIA

From:	Faenza, Julie M
To:	Waller, Martha K
Subject:	FW: [External] Replacement Equipment Exemption Notice for NH PMC Cardiac Cath Lab
Date:	Tuesday, December 8, 2020 12:28:03 PM
Attachments:	PMC Cath Lab Rm 3 REER to Agency 12.08.2020.pdf

Julie M. Faenza, Esq.

Project Analyst, Certificate of Need <u>Division of Health Service Regulation</u>, <u>Healthcare Planning and Certificate of Need Section</u> <u>NC Department of Health and Human Services</u> Office: 919-855-3873 <u>Julie.Faenza@dhhs.nc.gov</u> Pronouns: She/her/hers

Help protect your family and neighbors from COVID-19. <u>Know the 3 Ws. Wear. Wait. Wash.</u> #StayStrongNC and get the latest at <u>nc.gov/covid19</u>.

Twitter | Facebook | Instagram | YouTube | LinkedIn

From: Griffin, Lisa L <llgriffin@novanthealth.org>
Sent: Tuesday, December 8, 2020 12:25 PM
To: Faenza, Julie M <Julie.Faenza@dhhs.nc.gov>
Cc: Flores, Disraeliza <Disraeliza.Flores@dhhs.nc.gov>
Subject: [External] Replacement Equipment Exemption Notice for NH PMC Cardiac Cath Lab

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Hi Julie,

Please find attached an exemption notice related to the replacement of cardiac catheterization equipment at NH Presbyterian Medical Center.

Let me know if you have questions or need more information.

Thank you,

Lisa Griffin Manager, Operational Planning Novant Health, Inc. (704) 351 - 1132 We are here to help you get the care you need. Visit <u>Novant Health</u> or <u>Novant Health</u> <u>UVA</u> for up-to-date information.

Estamos aquí para ayudarle con el cuidado que usted necesita. Visite <u>Novant Health</u> o <u>Novant Health UVA</u> para información actualizada.

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