NC DEPARTMENT OF
HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
MANDY COHEN, MD, MPH • Secretary
MARK PAYNE • Director, Division of Health Service Regulation

VIA EMAIL ONLY

August 13, 2018

James Roskelly
Cone Health
Jim.roskelly@conehealth.com

Exempt from Review – Replacement Equipment

Record #:	**2678**
Facility Name:	Cone Health
FID #:	943494
Business Name:	The Moses H. Cone Memorial Hospital
Business #:	1811
Project Description:	Replace existing cardiac catheterization equipment on main campus
County:	Guilford

Dear Mr. Roskelly:

The Healthcare Planning and Certificate of Need Section, Division of Health Service Regulation (Agency), determined that based on your letter of June 25, 2018 and supplemental information received on August 3, 2018, the above referenced proposal is exempt from certificate of need review in accordance with N.C. Gen. Stat. §131E-184(f). Therefore, you may proceed to acquire without a certificate of need the Philips Azurion cardiovascular x-ray system to replace the GE INNOVA 551081BU3 cardiovascular x-ray system. 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.

Moreover, you need to contact the Agency's Construction, Radiation Protection, and Acute and Home Care Licensure and Certification Sections to determine if they have any requirements for development of the proposed project.

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,

Celia C. Inman
Project Analyst

Martha J. Frisone
Chief, Healthcare Planning and
Certificate of Need Section

cc: Construction Section, DHSR
Radiation Protection Section, DHSR
Acute and Home Care Licensure and Certification Section, DHSR
Melinda Boyette, Administrative Assistant, Healthcare Planning, DHSR
Melissa.shearer@conehealth.com
Kristy.kubida@conehealth.com

Inman, Celia C

From: Kubida, Kristy <Kristy.Kubida@conehealth.com>
Sent: Friday, August 03, 2018 4:27 PM
To: Inman, Celia C; Frisone, Martha
Cc: Shearer, Melissa
Subject: [External] Moses Cone Hospital Exemption Request
Attachments: Attachment 4_MCH Cardiac Cath #6 CON.pdf; Attachment 1_Cone Health License.pdf; Attachment 2_CH 2018 LRA.pdf; Attachment 3_MCH Campus Map.pdf

Celia,
This project is to replace one (1) cardiac catherization equipment in one (1) of its existing cardiac catherization labs located at The Moses H. Cone Memorial Hospital and satisfies the criteria in NCGS § 131E-184(f) and is therefore exempt from Certificate of Need review as follows:

(1) The cardiac catherterization equipment is located at The Moses H. Cone Memorial Hospital at 1200 North Elm Street, Greensboro, NC 27401-1020. This site is the main campus as defined in NCGS § 131E-176(14n) for Cone Health (Lic# H0159). Mickey Foster, President of The Moses H. Cone Memorial Hospital and Senior Vice President of Cone Health, exercises administrative and financial control of the main campus. Please see Attachment 1-3 for copies of Cone Health's 2018 License, selected pages from Cone Health's 2018 Hospital License Renewal Application, and a map of the main campus. The administrative offices at Moses Cone Hospital are located on the 1st floor near Entrance C, Patient Pick Up, and the cardiac catherization lab #6 is located on the 2nd floor between Entrance B, Emergency Department, and Entrance C, Patient Pick Up.
(2) The Department issued a certificate of need for this equipment in 1998. Please see Attachment 4 for a copy of the CON.
(3) Cone Health's letter dated June 25, 2018 and this subsequent letter serve as prior written notice to the Department.

Please let me know if you have further questions regarding this project.
Sincerely,

Kristy Kubida
Cone Health | Strategic Development
Planning Associate
Direct Dial: 336.832.9526 | Fax: 336.832.9503
Website: conehealth.com

From: Shearer, Melissa
Sent: Monday, July 02, 2018 1:18 PM
To: Inman, Celia C <celia.inman@dhhs.nc.gov>; Kubida, Kristy <Kristy.Kubida@conehealth.com>; Frisone, Martha <martha.frisone@dhhs.nc.gov>
Subject: RE: [External] Moses Cone Hospital Exemption Request

Thanks Celia. It is on the main Cone campus, so we'll get that documented and sent over to you.
Melissa

State of North Carolina

Department Of Health and Human Services

Division Of Facility Services

Certificate Of Need

FID# 943494

Project Identification Number G-5825-98 Effective Date August 11, 1998

Issued to: The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System
1200 North Elm Street
Greensboro, NC 27401

The North Carolina Department of Health and Human Services, pursuant to the North Carolina Health Planning and Resource Development Act of 1978, G.S. § 131E-175, et seq., as amended and recodified, G.S. § 131E-175, et seq., hereby finds and certifies that the new institutional health service proposed by the person listed above is consistent with, or as conditioned is consistent with the plans, standards and criteria prescribed by the Act and the rules and regulations promulgated thereunder. The findings of the Department are attached hereto and incorporated by reference.

This Certificate affords the person listed above the opportunity to proceed with development of the proposed new institutional health service in a manner consistent with the plans, standards, and criteria prescribed by the Act and the rules and regulations promulgated thereunder. This Certificate includes and is limited to:

SCOPE: The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System shall acquire one additional fixed unit of cardiac catheterization equipment for a total of six cardiac catheterization rooms/Guilford County.

CONDITIONS: See Reverse Side

PHYSICAL LOCATION: The Moses H. Cone Memorial Hospital
1200 North Elm Street
Greensboro, NC 27401

MAXIMUM CAPITAL EXPENDITURE: $2,179,301

TIMETABLE: See Reverse Side

FIRST PROGRESS REPORT DUE: November 30, 1998

This Certificate is limited to the person listed above and is not transferable or assignable. This Certificate may be withdrawn as provided in G.S. § 131E-189, and the rules and regulations promulgated thereunder.

Issuance of this Certificate does not supplant provisions or requirements embodied in codes, ordinances, statutes other than G.S. § 131E-175, et seq., rules regulations or guidelines administered or enforced by municipal, state or federal agencies or the agent thereof.

Chief, Certificate of Need Section
Division of Facility Services

1. The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System shall materially comply with all representations made in its certificate of need application.

2. Prior to issuance of the certificate of need, The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System shall provide the Certificate of Need Section with a letter from the Chief Financial Officer/Treasurer which demonstrates the Board of Trustees has committed the necessary funds for the capital needs of the project.

3. The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System shall not acquire, as part of this project, equipment that is not included in the capital expenditure in Section VIII of the application and that would otherwise require a certificate of need.

4. Prior to the issuance of the certificate of need, The Moses H. Cone Memorial Hospital d/b/a Moses Cone Health System shall acknowledge in writing to the CON Section acceptance and compliance with all conditions stated herein.

A letter acknowledging acceptance and compliance with all conditions stated in the conditional approval letter was received by the Certificate of Need Section on July 31, 1998.

Time Table

Design

Completion of preliminary drawings	February 27, 1998
Completion of final drawings and specifications	September 15, 1998
Approval of final drawings and specifications by Construction Section, DFS	October 15, 1998

Construction

Contract Award	October 31, 1998
25% completion of construction	November 30, 1998
50% completion of construction	December 31, 1998
75% completion of construction	January 30, 1999
Completion of construction	February 28, 1999
Occupancy/offering of service(s)	February 28, 1999

Acquisition of Medical Equipment

Ordering equipment	November 1, 1998
Arrival of equipment	January 1, 1999
Operation of equipment	February 15, 1999

State of North Carolina

Department of Health and Human Services
Division of Health Service Regulation

Effective January 01, 2018, this license is issued to

The Moses H. Cone Memorial Hosp Operating Corporation

to operate a hospital known as

Cone Health

located in Greensboro, North Carolina, Guilford County.

This license is issued subject to the statutes of the State of North Carolina, is not transferable and shall remain in effect until amended by the issuing agency.

Facility ID: 943494

License Number: H0159

Bed Capacity: *906*

General Acute 777, Rehabilitation 49 , Psych 80,

Dedicated Inpatient Surgical Operating Rooms: 4
Dedicated Ambulatory Surgical Operating Rooms: 13
Shared Surgical Operating Rooms: 37
Dedicated Endoscopy Rooms: 7

Authorized by:

Secretary, N.C. Department of Health and Human Services

Director, Division of Health Service Regulation

North Carolina Department of Health and Human Services
Division of Health Service Regulation
Acute and Home Care Licensure and Certification Section
Regular Mail: 1205 Umstead Drive
2712 Mail Service Center
Raleigh, North Carolina 27699-2712
Overnight UPS and FedEx only: 1205 Umstead Drive
Raleigh, North Carolina 27603
Telephone: (919) 855-4620 Fax: (919) 715-3073

For Official Use Only
License # H0159 Medicare # 340091
FID #: 943494
PC _____ Date _____

License Fee: **$16,805.00**

2018
HOSPITAL LICENSE
RENEWAL APPLICATION

Legal Identity of Applicant: **The Moses H. Cone Memorial Hosp Operating Corporation**
(Full legal name of corporation, partnership, individual, or other legal entity owning the enterprise or service.)

Doing Business As
(d/b/a) name(s) under which the facility or services are advertised or presented to the public:

PRIMARY: **Cone Health**
Other: The Moses H. Cone Memorial Hospital: Behav. Health Hosp
Other: Wesley Long Hosp./Women's Hospital

Facility Mailing Address: 1200 North Elm St
Greensboro, NC 27401-1020

Facility Site Address: 1200 North Elm St
Greensboro, NC 27401-1020
County: Guilford
Telephone: (336)832-7000
Fax: (336)832-9503

Administrator/Director: Terrence B Akin
Title: CEO
(Designated agent (individual) responsible to the governing body (owner) for the management of the licensed facility)

Chief Executive Officer: Terrence B. Akin **Title:** Chief Executive Officer
(Designated agent (individual) responsible to the governing body (owner) for the management of the licensed facility)

Name of the person to contact for any questions regarding this form:

Name: James Roskelly **Telephone:** (336)832-8199

E-Mail: jim.roskelly@conehealth.com

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

b. Cardiac Catheterization and Electrophysiology

Cardiac Catheterization, as defined in NCGS 131E-176(2g)	Diagnostic Cardiac Catheterization ICD-10 / CPT Codes [1]	Interventional Cardiac Catheterization ICD-10 / CPT Codes [2]
1. Number of Units of Fixed Equipment	7	
2. Number of Procedures* Performed in Fixed Units on Patients Age 14 and younger	0	0
3. Number of Procedures* Performed in Fixed Units on Patients Age 15 and older	3,116	1,324
4. Number of Procedures* Performed in Mobile Units	0	0
Dedicated Electrophysiology (EP) Equipment		
5. Number of Units of Fixed Equipment	1	
6. Number of Procedures on Dedicated EP Equipment	1,290	

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

Name of Mobile Vendor: N/A

Number of 8-hour days per week the mobile unit is onsite: _____ 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)

[1] Diagnostic Cardiac Catheterizations

ICD-10 PCS: 02B_3ZX, 02B_4ZX, 4A020N6, 4A020N7, 4A020N8, 4A023N6, 4A023N7, 4A023N8, B21_ _ZZ

CPT Codes: 93451, 93452, 93453, 93454, 93455, 93456, 93457, 93458, 93459, 93460, 93461, 93462, 93530, 93531, 93532, 93533

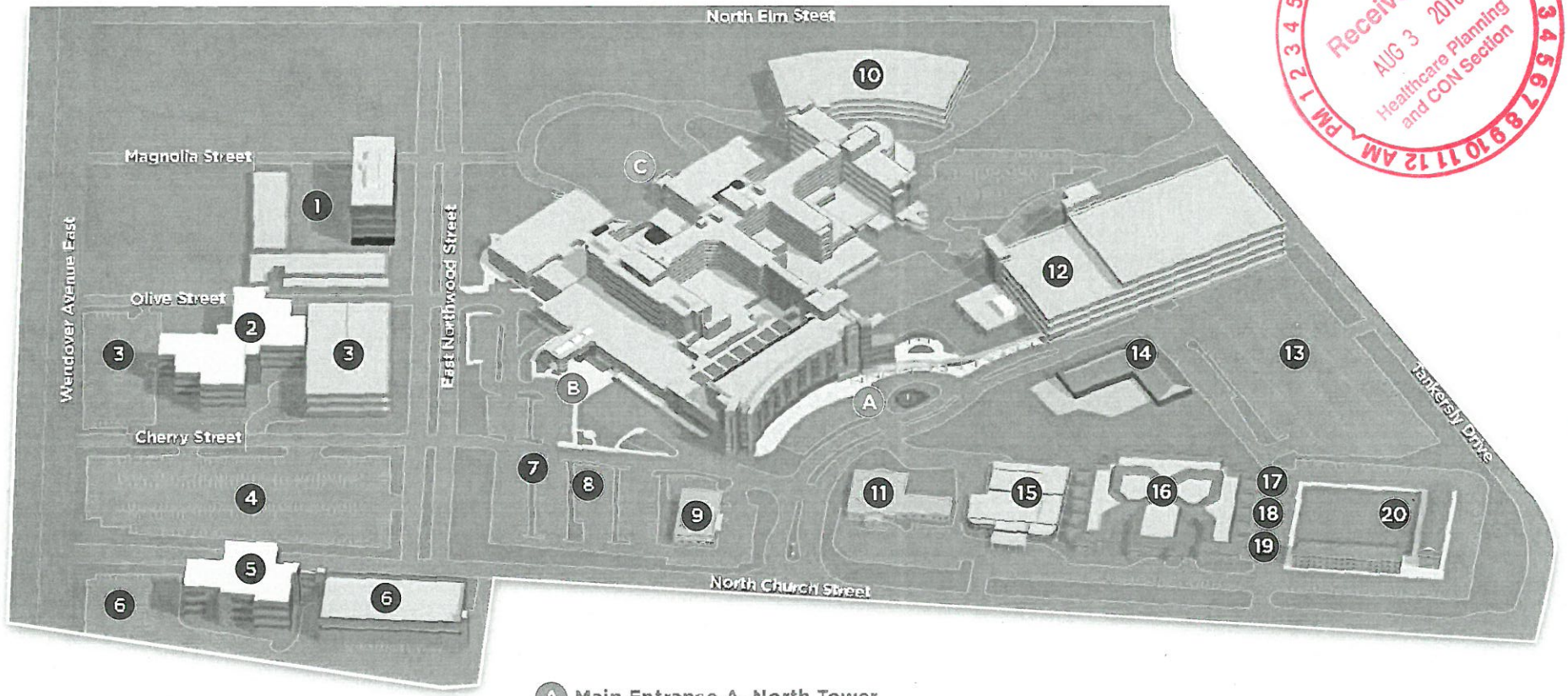
[2] Interventional Cardiac Catheterizations

ICD-10 PCS: 027_346, 027_34Z, 027_3D6, 027_3DZ, 027_3Z6, 027_3ZZ, 027F3ZZ, 027F4ZZ, 027G3ZZ, 027G4ZZ, 027H3ZZ, 027H4ZZ, 02C_3ZZ, 02RF0_Z, 02RF3_Z, 02RF3JH, 02RH3_H, 02RH3_Z, 02U53JZ, 02U54JZ, 02UG3JZ, 5A1221Z

CPT Codes: 0262T, 0281T, 33361, 33362, 33363, 33364, 33365, 33366, 33367, 33368, 33369, 33999, 33418, 33419, 92920, 92921, 92924, 92925, 92928, 92929, 92933, 92934, 92937, 92938, 92941, 92943, 92944, 92975, 92986, 92987, 92990, 93580, 93581, 93582, 93583, 92990, C9600, C9601, C9602, C9603, C9604, C9605, C9606, C9607, C9608

Note: Due to the large total number of potential codes in the ICD-10-PCS system, the codes listed above are not comprehensive. The "_" symbol, while not a character within the ICD-10-PCS system, serves as a wild card character and indicates where any other recognized character would be used. For example, in the code 027_34Z for a coronary drug-eluting stent procedure, "_" could be a "2" for three sites treated.

The Moses H. Cone Memorial Hospital



CONE HEALTH®
Moses Cone Hospital

- A Main Entrance A, North Tower
- B Entrance B, Emergency Department
- C Entrance C, Patient Pick Up
- 1 Northwood Building
- 2 Wendover Medical Center (WMC)
- 3 WMC Patient Parking
- 4 Employee Parking
- 5 Professional Medical Center (PMC)
- 6 PMC Patient Parking
- 7 Emergency Department Parking
- 8 Physician Parking
- 9 Cone Health Urgent Care
- 10 South Garage, Employee and Cardiac Rehab Parking
- 11 Cone Health Family Medicine Center
- 12 North Garage, Visitor and Employee Parking
- 13 Employee Parking
- 14 The Children's Corner
- 15 Cone Health Surgery Center
- 16 Heartland Living and Rehabilitation
- 17 Outpatient Pharmacy
- 18 Cone Health Sports Medicine
- 19 Cone HealthLink Epicenter
- 20 Residency Program Apartments

From: Inman, Celia C <celia.inman@dhhs.nc.gov>
Sent: Monday, July 02, 2018 12:30 PM
To: Kubida, Kristy <Kristy.Kubida@conehealth.com>; Frisone, Martha <martha.frisone@dhhs.nc.gov>
Cc: Shearer, Melissa <Melissa.Shearer@conehealth.com>
Subject: RE: [External] Moses Cone Hospital Exemption Request

Kristy,
Because the capital cost for the replacement equipment is greater than $2M, it cannot be approved under §131E-184(a)(7).

> *"(22a) "Replacement equipment" means equipment that costs less than two million dollars ($2,000,000) and is purchased for the sole purpose of replacing comparable medical equipment currently in use which will be sold or otherwise disposed of when replaced. In determining whether the replacement equipment costs less than two million dollars ($2,000,000), the costs of equipment, studies, surveys, designs, plans, working drawings, specifications, construction, installation, and other activities essential to acquiring and making operational the replacement equipment shall be included. The capital expenditure for the equipment shall be deemed to be the fair market value of the equipment or the cost of the equipment, whichever is greater."*

However, if you can document that you meet the requirements of §131E-184(f), it could qualify for an exemption.

"(f) The Department shall exempt from certificate of need review the purchase of any replacement equipment that exceeds the two million dollar ($2,000,000) threshold set forth in G.S. 131E-176(22a) if all of the following conditions are met:

(1) The equipment being replaced is located on the main campus.

(2) The Department has previously issued a certificate of need for the equipment being replaced. This subdivision does not apply if a certificate of need was not required at the time the equipment being replaced was initially purchased by the licensed health service facility.

(3) The licensed health service facility proposing to purchase the replacement equipment shall provide prior written notice to the Department, along with supporting documentation to demonstrate that it meets the exemption criteria of this subsection."

Main campus is defined as follows:

> *"(14n) "Main campus" means all of the following for the purposes of G.S. 131E-184(f) and (g) only:*
>
> *a. The site of the main building from which a licensed health service facility provides clinical patient services and exercises financial and administrative control over the entire facility, including the buildings and grounds adjacent to that main building.*
>
> *b. Other areas and structures that are not strictly contiguous to the main building but are located within 250 yards of the main building."*

Additional documentation can be emailed to me and I can combine it with your original request letter. Let me know if you have any questions on documentation of main campus.
Thanks,

Celia C. Inman
Project Analyst, Certificate of Need
Division of Health Service Regulation, Healthcare Planning and Certificate of Need Section
NC Department of Health and Human Services

Office: 919-855-3873
celia.inman@dhhs.nc.gov

From: Kubida, Kristy [mailto:Kristy.Kubida@conehealth.com]
Sent: Tuesday, June 26, 2018 11:38 AM
To: Inman, Celia C; Frisone, Martha
Cc: Shearer, Melissa
Subject: [External] Moses Cone Hospital Exemption Request

Good morning,
I'm submitting an exemption request for the replacement of one (1) cardiac catherization unit at Moses Cone Hospital. I understand that Celia is on vacation this week so I'm sending to both of you. If you have any questions, please let us know.
Sincerely,

Kristy Kubida
Cone Health | Strategic Development
Planning Associate
Direct Dial: 336.832.9526 | Fax: 336.832.9503
Website: conehealth.com

This message was secured by Zix®.

NOTICE: This message may contain confidential information intended only for the recipient. If you have received this communication in error, please notify the sender immediately by replying to the message and deleting it from your computer.

This message was secured by Zix®.

Rec'd by email 7/2/18

CONE HEALTH
The Network for Exceptional Care

1200 North Elm Street
Greensboro, NC 27401-1020
336.832.8199
www.conehealth.com

June 25, 2018

Ms. Martha J. Frisone, Chief
Ms. Celia C. Inman, Project Analyst
Healthcare Planning and Certificate of Need Section
Division of Health Service Regulation
2704 Mail Service Center
Raleigh, NC 27699-2704

Re: Cardiac Catherization Equipment Replacement at Moses Cone Hospital
Lic# H0159/FID# 943494

Dear Ms. Frisone and Ms. Inman:

I am writing to you pursuant to NCGS § 131E-184(a)(7) to inform you of Cone Health's plans to replace a cardiac catherization unit in one (1) of its existing cardiac catherization rooms at Moses Cone Hospital, a campus licensed as part of Cone Health (Lic# H0159). *Attachment 1* contains a comparison of the relevant information and specifications of the existing equipment and the planned replacement equipment. Of note, the replacement cardiac catherization equipment will cost $1,274,937 for the Azurion 7 M12 single-plane cardiovascular system. The new equipment will be functionally comparable to the existing equipment being removed from service. Minor renovations to the existing space will add approximately $746,036 to the total capital cost of the project. These costs were estimated by Cone Health Construction Management based on their knowledge and expertise with similar projects. The total proposed capital cost for this equipment replacement, including the cost to remove and dispose of the existing equipment removal, is $2,026,173. A detailed capital budget is included in *Attachment 2*.

The new equipment, which will be owned and operated by Cone Health, is planned to be placed into service in December 2018. The existing equipment will be removed from Moses Cone Hospital and taken out of service by Philips Healthcare, the vendor of the new equipment. Cone Health is simply updating an important piece of cardiac catherization equipment with newer technology that improves patient throughput and increases patient safety due to decreased radiation doses. Indeed, Cone Health purchased the existing equipment over 10 years ago and it has exhausted its useful life.

Please let me know if I can answer any questions you have around this planned replacement.

Sincerely,

James Roskelly

James Roskelly
Executive Vice President
Strategic Development

JR\jc

Attachment

cc: Rich Lundy, Vice President, Heart and Vascular Services, Imaging Services
Sheryl Booth, Executive Director, Imaging, Moses Cone Hospital
Ron Galloway, Director, Cone Health Construction Management
Tom Reoch, Senior Project Manager, Cone Health Construction Management

EQUIPMENT COMPARISON

	EXISTING EQUIPMENT	REPLACEMENT EQUIPMENT
Type of Equipment (List Each Component)	Cardiovascular X-ray system	Cardiovascular X-ray system
Manufacturer of Equipment	GE Medical Systems	Philips
Tesla Rating for MRIs	N/A	N/A
Model Number	INNOVA	Azurion
Serial Number	551081BU3	TBD
Provider's Method of Identifying Equipment	Serial Number	Serial Number
Specify if Mobile or Fixed	Fixed	Fixed
Mobile Trailer Serial Number/VIN #	N/A	N/A
Mobile Tractor Serial Number/VIN #	N/A	N/A
Date of Acquisition of Each Component	12/22/2007	Approximately 12/30/2018
Does Provider Hold Title to Equipment or Have a Capital Lease?	Title	Title
Specify if Equipment Was/Is New or Used When Acquired	New	New
Total Capital Cost of Project (Including Construction, etc.) <Use Attached Form>	N/A	See attached
Total Cost of Equipment	N/A	1,274,937
Fair Market Value of Equipment	0	1,274,937
Net Purchase Price of Equipment	N/A	2,008,445
Locations Where Operated	Moses Cone Hospital	Moses Cone Hospital
Number Days In Use/To be Used in N.C. Per Year	365	365
Percent of Change in Patient Charges (by Procedure)	0	0
Percent of Change in Per Procedure Operating Expenses (by Procedure)	0	0
Type of Procedures Currently Performed on Existing Equipment	Adult Cardiac Cath	N/A
Type of Procedures New Equipment is Capable of Performing	N/A	Adult Cardiac Cath

Attachment 1

Equipment Comparison Form

Attachment 2

Capital Cost Worksheet

PROJECT CAPITAL COST

A.	**Site Costs**				
(1)	Full Purchase Price of Land		$ -		
	# of Acres ____ Price per Acre	$ -			
(2)	Closing Costs		$ -		
(3)	Site Inspection and Survey		$ -		
(4)	Legal fees and subsoil investigation		$ -		
(5)	Site Preparation Costs [Include]		$ -		
	Soil Borings				
	Clearing and Grading				
	Road and Parking				
	Sidewalks				
	Water and Sewer				
	Excavation and Backfill				
	Termite Treatment				
	Sub-Total Site Preparation Costs		$ -		
(6)	Other (specify)		$ -		
(7)	**Sub-Total Site Costs**			$ -	
B.	**Construction Contract**				
(8)	Cost of Materials [Include]				
	General Requirements				
	Concrete/Masonry				
	Woods/Doors & Windows/Finishes				
	Thermal and Moisture Protection				
	Equipment/Specialty Items				
	Mechanical/Electrical				
	Sub-Total Cost of Materials		$ 617,036		
(9)	Cost of Labor		$ -		
(10)	Other (**Construction Contract**)				
(11)	**Sub-Total Construction Contract**			$ 617,036	
C.	**Miscellaneous Project Costs**				
(12)	Building Purchase		$ -		
(13)	Fixed Equipment Purchase/Lease		$ 1,274,937		
(14)	Moveable Equipment Purchase/Lease				
(15)	Furniture				
(16)	Landscaping		$ -		
(17)	Consultant Fees				
	A&E Fees and Reimbursables	$ 127,500			
	Legal Fees	$ 1,500			
	Market Analysis	$ -			
	Other (**Equipment Removal Cost**)	$ 5,200			
	Total Consultant Fees		$ 134,200		
(18)	Financing Costs				
	(e.g. Bond, Loan, etc.)		$ -		
(19)	Interest During Construction		$ -		
(20)	Other				
(21)	**Sub-Total Miscellaneous**			$ 1,409,137	
D.	**Total Capital Cost of Project (Sum A-C above)**				$ 2,026,173

PHILIPS HEALTHCARE
A division of Philips North America LLC
22100 Bothell Everett Highway
P.O. Box 3003
Bothell, Washington 98041-3003

PHILIPS

Quotation #: 1-1R6U7EL	**Rev:** 5	**Effective From:** 31-May-18	**To:** 30-Jun-18

Presented To:

MOSES H CONE HEALTH SYSTEM
1200 N ELM ST
GREENSBORO, NC 27401-1004

Tel:

Alternate Address:

Presented By:

Kimberly Bates
Account Manager
Tel: (704) 577-2484
Fax:

John Hill
Regional Manager
Tel: (800) 722-7900 x6806
Fax:

Date Printed: 31-May-18

Submit Orders To:

22100 BOTHELL EVERETT HWY
BOTHELL WA 98021

Tel: (888) 564-8643

Fax:(425) 458-0390

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 Summary

Line #	Product	Qty	Price
	100233 Azurion 7 M12	1	$1,274,936.93
		Equipment Total:	$1,274,936.93

Solution Summary Detail

Product	Qty	Each	Monthly	Price
100233 Azurion 7 M12	1	$1,274,936.93		$1,274,936.93

Buying Group: VIZIENT SUPPLY LLC **Contract #: XR0312 CV**

Addt'l Terms:

Each Quotation solution 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

100233 Azurion 7 M12

Qty	Product
1	NNAE547 Azurion 7 F12
1	NNAE580 Azurion FlexVision10 Input
1	NCVD067 ClarityIQ
1	NCVD058 FlexSpot
1	FCV0834 coupling to video switching
1	NCVD092 height-adjustable arm support
1	NCVB867 iE33 / EPIQ Video coupling
2	FCV0017 CABLE CARRIER CS
1	NCVC132 EchoNavigator R2
1	NCVD093 shoulder support board
1	NCVD061 optional ref monoplane
1	NCVD059 FlexSpot secondary monitor
1	FCV0248 Set of arm supports
1	NCVA783 Pivot for table base.
1	NCVD100 Left Ventricular Analysis
1	NCVD064 extension to FlexVision Pro
1	NCVD097 DVD writer
1	NCVD177 IW Hardware (FlexSpot)
1	NCVD031 FlexVision XL + 2 LCD's
1	NCVC546 HeartNavigator R3
1	FCV0510 Long mattress cardio
1	NCVC005 Equipment Rack DVI
1	989600207421 Equipment rack Predelivery set
1	NCVC413 Electrical Accessory kit OSC
1	NCVC414 Pre-Install Bracket
1	NCVC415 Pneumatic Regulator
1	980406041009 Rad Shield w/ Arm (Contoured) 61X76
1	980406190009 PIVOTING TABLE-MOUNTED RADIATION SHIELD
1	989801220012 Cable Spooler
1	989801220273 Ceiling Track w/Column & Handle Ext
1	989801220279 LED Single Color Exam Lamp
1	989801220375 Black Anti-fatigue Floor Mat w/logo.
1	989801220380 Full Load Remote UPS

Quote Summary

100233 Azurion 7 M12

Qty	Product
1	989600213942 AD5 TO XPER TABLE ADAPT. PLATE
1	SP003 Installation Labor
1	SP005 Contract Labor

Options

Qty	Product
1	NCVC409 EP Navigator R5
1	NCVC542 Dynamic Coronary Roadmap
1	NCVD081 Touch Screen Module Pro
1	FCV0604 DoseAware Bundle
1	989801220158 Mark 7 Arterion, Table Mount

100233 Azurion 7 M12

System Type: New
Freight Terms: FOB Destination
Warranty Terms: Part numbers beginning with two (2) asterisks (**) are covered by a System 12 Months Warranty. All other part numbers are third (3rd) party items.
Special Notations: Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.
Additional Terms:

Line #	Part #	Description	Qty	Each	Price
1	**NNAE547	Azurion 7 F12	1	$720,076.41	$720,076.41

Versatile solution 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
- Optimized utilization of your lab by procedure based workflow
- Superb image quality to evaluate small details and vessels with clarity.
- Intuitive user interaction delivering an easy to use, easy to learn system

Enhancing confidence and insight 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 floor mounted system is one of the most versatile solutions designed to support the full range of mainstream and complex cardiac interventions, including percutaneous coronary interventions, chronic total occlusion, bifurcation treatment and multi-vessel diseases. This future proof solution is designed around a single, standardized hardware and software platform that can be expanded as new needs arise or requirements change. 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 7 F12 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. In addition, hospital checklists and/or protocols can be uploaded into the Procedure Cards to help safeguard the consistency of interventional procedures and help to minimize preparation errors.
The Philips Azurion 7 F12 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 - and at one or more work spots in the control room at the same time - without interrupting each other. This leads to higher throughput and faster exam turnover and contributes to quality of care.

To improve dose management, Philips Zero dose positioning enables you to move the stand and table to the region of interest shown on the last clinical image hold before a new acquisition is started, without any radiation.

Specifications:
The Philips Azurion series contain a number of features to support a flexible and patient centric procedural workflow.
The Philips Azurion series (within the limits of the used Operating Room table) are intended for use to perform:

- Image guidance in diagnostic, interventional and minimally invasive surgery procedures for the following clinical application areas: vascular, non-vascular, cardiovascular and neuro procedures.
- Cardiac imaging applications including diagnostics, interventional and minimally invasive surgery procedures.

The Philips Azurion 7 F12 system comprises five functional building blocks:
1. Geometry
2. X-ray Generation
3. Image Detection
4. User Interface
5. Viewing

Each functional building block is explained in further detail including accessories.

1. Geometry
A .7 F12 stand

The floor mounted Poly Diagnost G stand offers a full range of cardiac projection possibilities. This configuration comprises the following features:
A motorized dedicated cardiac floor-mounted Poly-Diagnost G-stand. A rotatable base (motorized and manually operated) allows parking to provide a clear area around the patient table. Parking of the Poly Diagnost G stand is provided with electronic autostop positions.
All stand movements are motorized. In addition, the balanced FD-shift allows manual positioning of the flat detector.
Motorized Angulation and Rotation of the Poly Diagnost G-arm allow high speed operation.

- The motorized base rotation movement makes positioning in the iso-center easy and accurate. It also features comfortable, single operator control of stand parking.
- The motorized base rotation has a movement speed 12 degrees/s from +105 to -105 degrees.

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

Motorized stand movements with variable speed and configurable max speed, allowing:

- rotation up to 25 degrees/s
- angulation up to 18 degrees/s

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, 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 makes the pressure being divided equally and it 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.
- Patient straps
- Arm Support Board
- Set of Elbow Supports

2. X-ray Generation
A. Generator

The 7 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:

- Pulsed X-ray up to 3.75 , 7.5 , 15 , 30, 60(optional) frames/s for digital dynamic exposures
- Pulsed X-ray for pulsed fluoroscopy (3.75 , 7.5 , 15 , 25, 30 frames/s).
- Minimum exposure time of 1 ms
- ECG triggered acquisition: allows acquiring one exposure for each QRS peak with selectable delay time

- Automatic kV and mA control for excellent image quality prior to run to save dose
- X-ray tube load incorporated in the Certeray generator

B. X-ray tube
The 7 F12 system has the Maximus ROTALIX Ceramic grid switch tube assembly MRC200+ GS 0508 integrated.

The MRC200+ GS 05 08 tube assembly and cooling unit CU 3101 for cardiovascular systems comprises:

- 0.5/0.8 mm nominal focal spot values maximal 45 and 85 kW short time load
- Grid switching at pulsed fluoroscopy and low load exposure (to eliminate soft radiation and improve image quality)
- Continuous loadability: 3400 W (at 21 degrees C room temperature) / 4000 W (= Max assembly continuous heat dissipation)
- Application of SpectraBeam dose management
- Tube housing ROT 1001 for oil-cooled X-ray tube with thermal safety switch
- Cooling unit CU 3101 heat exchanger for use in oil-cooled 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 and technology of the x-ray generator, x-ray tube, flat detector and image processing.
- Customizable EPX protocols to each application according to user preferences for different composition of dose rate, pulse speed, filter setting, and image processing (noise reduction, adaptive contour enhancement, adaptive harmonization)
- Built-in SpectraBeam filtering of low energy radiation to improve image quality and dose efficiency with MRC200+ X-ray tubes.
- Pre-filters of 0.2, 0.5 and 1.0 mm CU equivalent
- 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 13:1)
- 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
- 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, and adaptive harmonization)

E. User dose awareness
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. The reported data can be used for, for example:

- Quality improvement: evaluating trends in X-ray dose performance per facility, system and operator. RDSR enables analysis of average dose levels & variance for routinely performed exams and procedures. Also, typical system usage can be extracted from the data, helping to identify root causes behind deviations and measures to improve.
- Analysis of individual patient cases: using dose levels and system usage per procedure
- Alerting for high dose cases, timely identifying patients at risk or deterministic effects, for proper follow-up.

Secondary Capture Dose Report
The Secondary Capture Dose Report function allows the user to save & transfer, manually or automatically, a patient Dose Report to PACS in DICOM secondary capture format.
The dose report will be stored in the related patient image folder.

3. Image Detection
The image chain with the 12 inch flat panel image detector comprises the following:

- A 28 cm (12 in.) diagonal triple mode Dynamic Flat Detector subsystem for fluoroscopy and cine-fluorography.
- A 5 modes 11*11/13.5*13.5/16*16/19*19/21*21 [cm] Dynamic Flat Detector
- The outer detector physical housing is 28.3*28.8 [cm]
- The digital output of the Flat detector is 1344*1344 pixels at 16 bit depth.
- The pixel pitch is 154 micron by 154 micron
- The DQE(0) is 77% providing high conversion of X-ray into a digital image, while maintaining a high MTF.

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.

The On-Screen Display is positioned on the left side of the live/ref monitor. The following system information is displayed:

- 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
- General System messages ()
- Selected Frame speed ()
- Fluoroscopy mode ()
- Integrated fluoroscopy time ()
- Skin Dose: dose rate during X-ray, cumulated dose when no X-ray ()
- Dose Area Product: dose rate during X-ray, cumulated dose when no X-ray ()
- Graphical bars for Body Zone specific dose-rate and accumulated skin dose levels, related to the 2 Gy level (for cardiac applications)
- Stopwatch

Touch screen module

The touch screen module is provided for use at either the tableside or in the control room. Optionally, it is possible to connect in parallel up to three touch screen modules on the system. The touch screen module has a touch screen, which can be operated when covered with sterile covers. The touch screen module allows control of (depending on configuration):

- 3rd party equipment (e.g. CX50, Interventional Tools, EchoNavigator, DoseAware)
- Monitor layout (FlexVision, swit chable viewing)
- X-Ray settings (Collimation, Projections, Table, Series and Processing)
- Quantitative Analysis (optional) User can only start QA from the touch screen module, nothing more, No Controls

Viewpad

The Viewpad contains the preprogrammed function settings. The system is provided with two Viewpads. The following functions are provided:

- Run and image selection
- File and run cycle
- File overview
- Store to Reference image fileCopy image to photo file

- Digital (fixed) zoom and panningRecall reference images, which means switching control of Viewpad function from life to reference monitor
- Laser pointer, intended to point at regions of interest on the image monitors
- LED indication of laser pointer on/off and battery low

Control module.
The control module can be positioned at three sides of the patient table, while keeping the button operation intuitively logical. The control module single-plane provides the following functionality:

- 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
- Store and recall of two scratch gantry positions including SID
- Geometry reset button, which resets stand and table to a factory-default starting position
- Emergency stop button
- Execute button of the Automatic Positioning Control (APC) if applicable
- Unlocking button for table pivot function (if option is installed
- Table tilt and cradle controls (if option is installed)
- Fluoroscopy Flavor selection defined per setting
- Shutters and Wedge positioning
- 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. This removable bar protects the buttons from unintended control.

The pan handle is an extension of the control possibilities for floating movements of the table top in cardio vascular and neuro systems

Key benefits

- Flexible positioning during cardio and neuro procedures
- Flexible positioning during cardio and neuro procedures

To allow more flexible positioning during cardio and neuro procedures, the pan handle option can be used to perform floating table movements. The pan handle provides a solid grip of the tabletop and can release and apply the tabletop brakes. It can be attached anywhere along the tabletop and accessory rails without affecting the floating range.
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 color monitor and review monitor. The data and review functions are controlled by a single keyboard and mouse. The review module offers the basic functions for review. The most prominent functions can be controlled by the push of a button. The review module comprises the following functionality

- Power on/off
- File and run cycle
- File, Run, and Image stepping
- 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-ra
- Frame speed settings, fluoroscopy mode, and accumulated Fluoroscopy tim
- Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and time (ms)
- Geometry information as rotation, angulation, and SID

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

- Review of other DICOM XA or DICOM SC studies.

Quantitative Coronary Analysis

Key benefits
- Allows quantitative quantification of coronary artery dimensions
- Aids confident decision making for device selection, approach angles and follow-up
- Designed for efficiency with single click functions and fast results

Easily obtain objective assessment of coronary artery to support decision making and allow assessment of vasculature during cardiac interventions, the 2D quantitative coronary analysis supports quantification of coronary artery dimensions of about 1 to 6 mm from 2D angiographic images. With one click, the relevant segment is detected and a visualization of the obstruction, healthy vessel, reference diameter, stenosis diameter and plaque area is created.

Specifications

- 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 simplified with the single click function. Position the mouse on or close to the stenotic area and click once to detect the relevant segment. The visualization shows the obstruction, healthy vessel, reference diameter, stenosis diameter and plaque area.

Archiving
Clinical cases 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. A 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 monitors 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
- 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. At customer request, this 2 monitor MCS can be replaced by a 4 or 6 fold MCS or an MCS integration kit HD for non-Philips MCS. The MCS integration kit HD contains vital parts for system operation.

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 DICO
- Internal power supply (100-240 VAC)

- 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 on-line 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 XA MF 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.

Remote Intercom for the Azurion System. The option includes a separate intercom, which is connected independently from the system. This allows placement of the intercom at the preferred working position in the control room and examination room. The listen function can be separately selected 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.

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 7 F12 system is a perfect example of our EcoVision program. By examining every aspect of the 7 F12 design and development through a green eye, we drastically reduced the products environmental impact.

System & table APC

Helps to save time and manage X-ray dose with automatic positioning

Positioning the X-ray system to visualize relevant anatomy from different perspectives can involve a great deal of time and many scout images during interventional procedures. To help save time and manage X-ray dose while working, the Automatic Position Controller (APC) provides an easy way for interventional team members to store and recall stand-related positions.

Specifications

The system APC stand and table positions need to be stored and recalled separately.

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 work-flow 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 lo dging 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 twenty-eight (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

Line #	Part #	Description	Qty	Each	Price

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).
Ref#29633929634029634129634 2-20170209

2	**NNAE580	Azurion FlexVision10 Input	1	$25,307.70	$25,307.70

Eight Isolated Wall Connection box to support the display of an external video source on a monitor in the examination room.

Key benefits

- Stream video from other modalities on the interventional X-ray suite:
- Connect external video in the exam room

Easily stream video to other locations

Many interventional facilities use video to record and stream images from other modalities on the interventional X-ray suite for training or presentation purposes. The Video Wall Connection Box facilitates connection of the video source via a standard DVI cable/connector and lossless transfer of the video signal over the approximate 30 meter long cable. It can be mounted in the examination room or in the control room, depending on the location of the video source.

Specifications

The quantity of the VWCB's has to be calculated as follows:

For each video signal via MultiVision: 1 VWCB (max = 4)

For each video signal to FlexVision XL on Cardio System: 1 VWCB (max = 9)

For each video signal to FlexVision XL on Vascular System: 1 VWCB (max = 8)

For each 3rd party video signal directly connected to an LCD in the MCS: 1x VWCB

Note:

No VWCB is required in case a video signal is connected directly to a dedicated LCD from the following sources:

1. Live/ref Slaving
2. Interventional HW (XtraVision), IntelliSpace Portal, Philips Xcelera (only if workstations are powered by Philips X-ray system)
3. XperIM

Two Isolated Wall Connection box on the rear side of the monitor ceiling suspension to support the display of an external video source on a monitor in the examination room.

Key benefits

- Easily connect external video in the exam room

Line #	Part #	Description	Qty	Each	Price

Specifications

A wall connection box to connect external video (input only), USB and Ethernet. One or two WCB's (option) can be attached on the rear side of the 1st MCS with a bracket. A cable box (also attached to rear side of 1st MCS) can be used to store connected equipment cables. A maximum of two WCBs/cable boxes can be attached.

3 ****NCVD067** **ClarityIQ** **1** **$96,862.66** **$96,862.66**

Significantly lower dose- across clinical areas, patients and operators.

Key benefits
- High-quality imaging at low dose levels
- Enhanced work environment for staff through active management of scatter radiation
- Expands treatment options – enables longer procedures to treat obese and high-risk patients with confidence

See with confidence every time
Interventions are becoming increasingly complex, which lengthens fluoroscopy time and increases the need for high resolution imaging. New devices can be more difficult to visualize, making it harder to position them precisely. The prevalence of patients with a high BMI can also require increased dose levels to visualize anatomy. All of these factors inspired us to completely redefine the balance in interventional X-ray with AlluraClarity.

AlluraClarity with its unique ClarityIQ technology gives you exceptional live image guidance during treatment. What's more, you can confidently manage low X-ray dose levels without changing your way of working. In short, you can see what you have to regardless of patient size.

Specifications
ClarityIQ technology is the foundation of Philips X-ray systems with AlluraClarity. It offers:
- Noise and artefact reduction, also on moving structures and objects
- Image enhancement and edge sharpening
- Automatic real-time patient and table motion correction on live images
- A flexible digital imaging pipeline from tube to display that is tailored for each application area
- Over 500 clinically fine-tuned system parameters making it possible to filter out more X-ray radiation and use smaller focal spot sizes and shorter pulses with the grid switching technology of Philips MRC tube and accompanying generator.

4 ****NCVD058** **FlexSpot** **1** **$45,439.26** **$45,439.26**

Integrated work spot in the Control Room to view, control and manipulate all applications within a single view

Key benefits
- Access all applications on one compact workplace in the control room
- Set up unlimited custom screen layouts with all relevant information in one view
- Full flexibility of screen layouts (live resize, drag and drop)
- Clutter free and clean control room

Simplify control room workflow
Typical interventional control rooms are equipped with several workstations and controls to support procedures that require extra handling and space. FlexSpot helps you save time and space in the control room by giving you seamless access to all applications on one compact workplace. Easily set up any screen layout desired with all relevant information in one view. Resize, drag and drop items just like a tablet.

Specifications
FlexSpot offers an integrated workspot in the Control Room with one or more high resolution QHD (2560x1440) displays.

Line #	Part #	Description	Qty	Each	Price

- Show internal video sources (e.g. Review, CR Live)
- Show up to 11 external video sources (e.g. Ultrasound, EchoNav, etc.)
- Video sources can be flexibly displayed on FlexSpot through user customizable presets. Users can customize the displayed layout and assign video sources to viewports as desired
- Up to 4 video sources can be displayed on a single FlexSpot display (excluding the add-on FlexSpot).
- Per display, the user can choose between 7 different layouts (positioning of viewports)
- FlexSpot offers user interaction through a keyboard and mouse with which users can seamlessly control all video sources on screen. Seamless means that users can move out of one viewport and into another without needing to press a special keyboard shortcut or use a gesture.
- In systems with both FlexSpot and FlexVision, FlexSpot offers convenient control access of FlexVision from the primary FlexSpot workspot.
- Users can define their own preset groups and preset names.
- Through field service, users can assign their own custom name and icon to a video source (also applies to FlexVision)
- The X-ray status area with all X-ray details is always visible on the primary display of the primary FlexSpot workspot.
- Up to 3 Philips workstations can be integrated into the technical room. With this, the workstations are powered from the system and are fully integrated into the system. Users do not need to separately power on/off these workstations.
- The snapshot function allows the user to store/save a screen-capture of any image on the FlexSpot as a photo image to the current Acquisition Patient study.
- 27 inch high brightness color LCD monitor for clinical image display in the Control Room.

The main characteristics for color monitor are:
- 27 inch color TFT-LCD display
- Native format 2560x1440 Quad HD
- High brightness (max 500 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)
- Integrated USB hub

Line #	Part #	Description	Qty	Each	Price
5	**FCV0834	coupling to video switching	1	$7,644.22	$7,644.22

Key benefits
• Easily display any data or clinical information needed to work efficiently

Simplify workflow with flexible viewing control
Having patient data and clinical information easily available on screen can enhance decision making and efficiency during interventions. Coupling to Video switching enables coupling of maximum 4 color outputs (e.g. Interventional tools, Xcelera, XperIM and IntelliSpace Portal).

Specifications
Video splitter box to enable coupling of maximum 4 color outputs (e.g. Interventional tools, Xcelera, XperIM and IntelliSpace Portal) to the switching concept from our partner.

Line #	Part #	Description	Qty	Each	Price

In combination with the MultiSwitch option, the Video splitter box is used to connect a maximum of 3 workstation with a total power dissipation of maximum 1380 W.
For the remaining workstations, up to 4 in total, a second video splitter box needs to be ordered.
In addition, 4 splitter units are delivered to enable coupling of up to 4 of the X-ray system Live and Ref signals to the partner video switching system.
The partner system provides fully galvanically isolated DVI extender cables to connect these signals.

6	**NCVD092	**height-adjustable arm support**	1	$998.99	$998.99

• Enhance patient comfort during catheter usage

Enhance patient comfort during catheter usage
To support the patient's arm when a catheter is used for brachial catheterization and digital imaging techniques, the arm support can be attached to the tabletop. The support is made of X-ray transparent material and includes a mattress pad for increased patient comfort. The fixation clamp and pivot mechanism are not made of X-ray transparent material.

7	**NCVB867	**iE33 / EPIQ Video coupling**	1	$1,067.55	$1,067.55

• View ultrasound images on the exam room monitors
• Gain insight into soft tissue anatomy

View ultrasound images in the interventional suite
During interventional procedures, ultrasound imaging can provide critical insights into soft tissue anatomy. The iE33 / EPIQ video coupling feature has been designed to integrate iE33 / EPIQ ultrasound images into the interventional suite. It provides the required infrastructure to display iE33 / EPIQ images on the exam room monitors to support decision making during interventions.

8	**FCV0017	**CABLE CARRIER CS**	2	$288.92	$577.85

Additional carrier for suspension of cable hose from X-ray tube assembly or TV monitor.

9	**NCVC132	**EchoNavigator R2**	1	$137,404.92	$137,404.92

Structural heart procedures often rely on X-ray imaging to visualize the devices, while simultaneously relying on TEE Echo imaging of soft tissue and anatomical structures. EchoNavigator is a real time imaging modality that supports structural heart procedures by combining both X-ray and echo in an interactive, intuitive and procedurally relevant way.

EchoNavigator is based on a real time, advanced imaging platform that combines the 3D TEE Echo and X-ray images. It provides two visual outputs (with 1920*1200 display resolution), one for the control room and one for the examination room. The visual output for the control room is connected to a dedicated color 24" wide screen LCD display and is part of the EchoNavigator solution. The visual output for the examination room shall be connected to a FlexVision XL display solution.
A mouse and mouse tablet (with table attachment) is included to operate the EchoNavigator functionality from the Allura Xper table side.

EchoNavigator includes an Interventional Echo Link. The Interventional Echo Link provides a high speed live 2D and 3D digital connection between the Echo unit and the EchoNavigator imaging platform.

Features EchoNavigator:

To facilitate the interpretation of Echo images, EchoNavigator allows for multiple user-defined live views of Echo data, showing relevant anatomical structures from different angles simultaneously in real time. The image orientation of the 'C-arm" view automatically synchronizes Echo images with the X-ray images. The Echo viewpoint is automatically adjusted as the gantry is repositioned (follow C-arc).

To further help the understanding of the Xray and Echo image relation, EchoNavigator projects the ultrasound field of view (Ultrasound cone) as an outline into the X-ray view.

Multiple markers can be placed on soft tissue anatomical structures in the Echo image and these markers automatically appear in the X-ray image to provide context and help guidance.

An elliptical shape, in addition to single point markers, can be selected as annotation to mark anatomical regions of interest.

A movie of the main display area can be recorded to capture interesting events and sequences during the intervention. Retrospective as well as prospective recordings are supported.

The EchoNavigator user interface is optimized for use from the table side. This allows the X-ray operator to interrogate the relevant anatomical structures in the Echo images supporting workflow and communications with the Echo operator.

EchoNavigator Requires:

• EchoNavigator compatible Echo system, probes, and licenses/software

• EchoNavigator compatible Allura system, hardware, and licenses/software

• FlexVision XL display solution

• The lab must have one free Allura Wall Connection Box in the exam room (to connect the Echo unit) and one free Allura Wall Connection Box in the control room (to connect the EchoNavigator system). In case no free Wall Connection Boxes are available, additional Wall Connection Boxes shall be ordered & installed or existing WCBs shall be re-assigned.

IXR EchoNavigator Imaging Systems OnSite Education

Philips Imaging Systems Clinical Education Specialist will provide eight (8) hours of education for up to four (4) students, selected by customer, including technologists from weekend/night shifts as necessary. CEU credits are not available for this portion of training. 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.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref #819-20121213

2 DAY USCE ENT L3D TEE w/travel

2 Day Purchased TEE University with Travel - A variety of Live 3D TEE University course offerings are available to meet your educational needs. Live 3D TEE provides cardiologists, anesthesiologists, and cardiac surgeons novel and exiting realistic views to aid in patient care. The 2 Day PUR TEE University Tuition includes both the tuition and the corjameresponding travel package.

100233 Azurion 7 M12					
Line #	**Part #**	**Description**	**Qty**	**Each**	**Price**

Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.

Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for up to 3 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.

1 DAY USCE ENT CES ONSITE

1 Day On-Site CES – Ultrasound training designed specifically to meet the customers' needs; one business day (up to 8 consecutive hours) with one of our Philips Clinical Education Specialists. Education is provided Monday-Friday during normal business hours.

*Note: Philips Healthcare personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by Ultrasound Sonographers as identified by the department director. Site must be patient-ready.

2 DAY USCE ENT 400lvl w/trav

2 Day 400 Level Tuition Only - Use only for a two-day level 400 Ultrasound Clinical Education course. Travel and lodging included. NOTE: A twenty-one (21) day notification of cancellation is required or education will be forfeited. Curriculum is subject to change without notice.

10	****NCVD093**	**shoulder support board**	**1**	**$994.09**	**$994.09**

• Enhance patient comfort during catheter usage

Enhance patient comfort during catheter usage

To support the patient's arm when a catheter is used through the pulse, the pulse catheter arm support can be attached to the tabletop. It also provides room for placing catheterization instruments. The support is a flat radio translucent board that is placed under the patient, and part of it protrudes to the left or right side of the tabletop to support the arm.

Specifications

Size: 100 x 85 cm

Material: carbon-fiber reinforced material

11	****NCVD061**	**optional ref monoplane**	**1**	**$5,396.49**	**$5,396.49**

Line #	Part #	Description	Qty	Each	Price
		Additional Ref2 and Ref3 viewport			

Key benefits
• Easily display any data or clinical information needed to work efficiently

Simplify workflow with flexible viewing control
Having patient data and clinical information easily available on screen can enhance decision making and efficiency during interventions. Optional ref monoplane offers an additional video output of the X-ray system offering an additional Ref2 and Ref3 viewport on one LCD monitor. Combined with the Dual Fluoro license this enables users to zoom live images during acquisition, while having the Dual Fluoro image visible on the Ref3 viewport.

12	**NCVD059	**FlexSpot secondary monitor**	1	$9,656.88	$9,656.88

FlexSpot secondary monitor

Simplify control room workflow
This option adds a second QHD (2560x1440) high resolution monitor to the primary FlexSpot workspot.

Specifications
2nd Display for FlexSpot enables the user to show up to 8 video sources on a single FlexSpot workspot by combining 2 high resolution displays. Keyboard and mouse control is seamless across the 2 displays, see FlexSpot.

13	**FCV0248	**Set of arm supports**	1	$156.70	$156.70

• Enhances comfort for patient's arms

Comfortable support for patient's arms
These arm supports are designed to support the patient's arms comfortably during examinations and also prevent the patient's arms from hanging over the side of the table.

14	**NCVA783	**Pivot for table base.**	1	$5,043.91	$5,043.91

For angiographic- and interventional procedures of the upper peripherals.
Provides improved table access for patient transfer.
Allows pivoting of the table base around its vertical axes.
Pivot range from -90 degrees to + 180 degrees (or -180 to +90 degrees) with locked positions on 0, -13/+13 (facilitating arm-angiography) and -90/+90 and 180 degrees.

Comprising:

- pivot device with graduated scale to be mounted on the universal floor plate of the table.

Compatible with Xper Table

15	**NCVD100	**Left Ventricular Analysis**	1	$11,321.86	$11,321.86

Key benefits
• Allows quantitative quantification of left ventricular volumes
• Designed for efficiency with single click functions and fast results

Easily obtain objective assessment of coronary artery
To support decision making and allow quantitative assessment of anatomy during cardiac interventions, the 2D Left Ventricular Analysis option supports quantification of left ventricular volumes and local wall motion from monoplane angiographic series. It calculates the ejection fraction and local wall motion parameters in different formats. Wall contours can be easily drawn both automatically and manually.

100233 Azurion 7 M12					
Line #	**Part #**	**Description**	**Qty**	**Each**	**Price**
		Specifications • Various LV-volumes: ED, ES, Stroke Volume • Ejection Fraction • Cardiac Output • Centerline Wall Motion • Slager Wall Motion • Automated and manual calibration routines • ECG visualization facilitates image selection for analysis • Store result pages			
16	****NCVD064**	**extension to FlexVision Pro**	**1**	**$40,894.85**	**$40,894.85**
		Extension to Flexvision large 58 inch high resolution LCD for exam room, enabling flexible screen lay outs and full control (seamless mouse) of up to 11 external sources including third party systems. **Key benefits** - Full control at table side of all applications with seamless mouse control or via touch screen module - Full flexibility of screen layouts (live resize, drag and drop, unlimited number) - To simplify and standardize system set-up for your FlexVision Pro, your personalized layout will come up automatically with ProcedureCards. **Easy tableside control** With FlexVision Pro, user can control FlexVision and video sources on FlexVision through wireless mouse in Examination Room as well as virtual keyboard and touchpad on the touch screen module in the Examination Room. An operator can resize images and adjust the screen layout during the procedure without going into configuration. **Specifications** Full control at table side of all applications in the interventional lab (view and control) with a single wireless mouse or with a Touch Screen Module • Integration: control of up to 11 external sources • Possibility to configure unlimited flexible screen layouts • Screenshots: with single click all displayed inputs can be captured • Live resize the video window and adjust the screen layout during the procedure without going into configuration • Operate all the video sources displayed on the monitor using the wireless mouse at tableside • Mouse and keyboard function on the touch screen module (TSM) to control (external) sources			
17	****NCVD097**	**DVD writer**	**1**	**$313.41**	**$313.41**
		Key benefits • Store images and information on DVDs for easy sharing **Store images and information on DVDs for easy sharing** To provide flexible storage options, a DVD writer is available with the Philips X-ray system. Procedural images and information can be stored on DVDs and used for archiving, training and presentations. **Specifications** Export and import of X-ray images and X-ray runs to DVD and/or from DVD			
18	****NCVD177**	**IW Hardware (FlexSpot)**	**1**	**$21,419.48**	**$21,419.48**

Line #	Part #	Description	Qty	Each	Price

Hardware for the 3D interventional tools combined with FlexSpot.

Key benefits
- Facilitates multimodality viewing in exam room and control room
- Supports DICOM compatible data from CT and MR imaging modalities
- Provides real-time access to images to support fast results

View multimodality images in exam room and control room
Images from a variety of sources are being increasingly used during interventions for a variety of Live Image Guidance tools. The Interventional Hardware option provides the hardware for our interventional tools that enables DICOM compatible data from other imaging modalities to be imported and viewed in the exam room and control room. To support fast results, a real-time digital image link is provided between the Interventional Hardware workstation and the X-ray system.

Specifications
The Interventional hardware is the hardware for the 3D interventional tools that included Real Time Link. It enables import and viewing of DICOM compatible data from other imaging modalities. The Interventional Hardware comprises at least:
- Computer Workstation
- 16 GB memory
- 1.5 TB disk for the operating system, application software and application data
- Internal CD-ROM / DVD writer
- Mouse tablet to interact with all the interventional tools at the table side.

Conditionally:
FD Calibration Tool Kit for 3D-RA

19	**NCVD031	FlexVision XL + 2 LCD's	1	$113,678.96	$113,678.96

FlexVision XL is an integrated viewing solution designed to give you full control over your viewing environment.
This FlexVision XL is delivered with two 27 inch high brightness color medical grade LCD monitors. The monitors can be mounted on top side or on rear side of the MCS.

Key benefits
- Easily display multiple, up to 8, video inputs (including third party systems) to inform decision making during procedures
- Create custom display templates to support diverse procedures
- The screen layout of the FlexVision XL can also be changed from the control room
- Enlarge images to reveal more details and support comfortable working positions

Diagnostic information easily made available at table side
In today's interventional setting, as you perform more complex procedures with smaller devices in complex anatomy, you rely on various types of diagnostic information to guide you. To inform decision making in the exam room, Philips offers an advanced digital workspace called FlexVision. You can display multiple images in a variety of custom layouts on a large LCD screen. Zoom in and out to enhance fine details, while maintaining an overview of all information. Create custom display templates for specific procedures/physician preferences to easily support diverse procedures.

Specifications
1. DVI video composition unit.
The DVI video composition unit allows the user to direct and switch the video output of all connected medical equipment to specific sub windows of the Philips 58-inch color LCD with LED backlight in the Examination Room.
- The DVI video composition unit is operated from the touch screen module.
- The DVI video composition unit supports a wide variety of display formats (up to 1920x1200)

Line #	Part #	Description	Qty	Each	Price

• Up to 11 external inputs are connected to the DVI video composition unit via wall connection box or boxes.

2. Medical grade, high resolution color LCD in the Examination Room
This display supports the image quality requirements for monochrome X-ray images as well as color images and replaces all displays normally delivered with the system for the Examination Room.
Main characteristics are:
- 58-inch, 8 Megapixel color LCD
- Native resolution: 3840x2160
- Brightness: Max: 700 Cd/m2 (typical) stabilized: 400 Cd/m2
- Contrast ratio: 1:4000 (typical)
- Wide viewing angle (approx. 176 degrees)
- Constant brightness stabilization control
- Lookup tables for gray-scale, color and DICOM transfer function
- Full protective screen Ingress Protection: IP-21

3. Large color LCD control (touch screen module)
• Enlarge information at any stage during the case via the touch screen module in the Examination Room or Control Room.
• Select viewing lay-outs via the touch screen module in the Examination Room.
• Create new layouts by matching inputs to desired locations on preset templates.
• Adjust the screen layout during the procedure without going into configuration
• 20 layouts; each layout is customizable, size of viewports can be customized by end user X-ray status area visible with all X-ray details

4. Monitor ceiling suspension
Monitor ceiling suspension for use in the Examination Room carries the 58-inch color LCD, providing highly flexible viewing capabilities. The monitor ceiling suspension is height-adjustable and moveable along ceiling rails. It can be positioned on either side of the table.

5. Snapshot
The snapshot function allows the user to store/save a screen-capture of any image on the FlexVision XL as a photo image to the current acquisition patient study.

20	**NCVC546	**HeartNavigator R3**	**1**	**$45,439.26**	**$45,439.26**

Key benefits

- Deeper anatomical understanding to plan and perform TAVR/TAVI, mitral valve replacement and LAAC procedures
- Immersive user experience and fully automated tasks simplify planning, measurement, device selection and choice of optimal X-ray viewing angle
- Enhanced insight into calcification distribution

Insightful planning and guidance for Structural Heart Disease procedures
When planning a structural heart disease (SHD) procedure, an objective assessment on vascular anatomy can help you work with greater confidence and avoid complications. Understanding the patient's individual anatomy when planning a transcatheter aortic valve replacement or implantation (TAVR/TAVI), mitral valve replacement, left atrial appendage closure (LAAC) or other procedure helps you select the appropriate approach, and size and type of a device. In addition, safely navigating the valve delivery devices through anatomy and deploying the valve in the correct position are recognized as technical challenges when performing TAVR/TAVI procedures.
HeartNavigator Release 3 automatically segments anatomical structures, anatomical landmark points and anatomical planes from previously acquired DICOM compliant CT datasets to support a wide variety of structural heart disease procedures. Different visualization tools, including anatomical landmarks, virtual devices, optimal viewing planes and measurements are available to support precise planning.

Specifications

Line #	Part #	Description	Qty	Each	Price

- Automatic segmentation of tissue, anatomical structures, landmarks, calcium, anatomical planes and viewing angles within the cardiac CT data for TAVI/TAVR
- Automatic distance, diameter, area and perimeter measurements for TAVI/TAVR
- Automatic Free centerline measurement along the ascending aorta for TAVI/TAVR
- Segmentation, measurements and viewing angles for other SHD procedures, e.g. mitral valve replacement and left atrial appendage closure
- Up to date virtual device library for TAVI/TAVR procedures
- Report with all relevant measurements, optimal viewing angles and selected device as print for use in exam room or stored on the PACS.
- Live guidance with CT overlay and automatic optimal viewing angles
- Highly automated intuitive workflow
- Enhanced anatomy visualization

Please contact your local sales person for any CT compatibility details.

Clinical Education Program for iXR Heart Navigator:

iXR Heart Navigator OnSite Education: Philips Education specialist will provide sixteen (16) hours of education for up to (4) students selected by the customer . The Physicians performing the procedures are required to be part of the training session. CEU credits may be available for each participant that meet 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 the equipment during the educations sessions except to demonstrate proper equipment operation.

iXR Heart Navigator OnSite Live Case Follow Up Education: Philips Education Specialist will provide twenty -four (24) hours of education for Physicians and staff for live case use of the Heart Navigator software. This will be a follow up visit to the initial training of the Heart Navigator software. **It is required that Live Valve implantation studies be performed during this education session**. No CEU credits will be available for this session. 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 the equipment during the educations sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref # 694698-20110915

21	****FCV0510**	**Long mattress cardio**	**1**	**$607.23**	**$607.23**

Line #	Part #	Description	Qty	Each	Price

• Enhances patient comfort
• Adapts to the shape of the patient's body

Enhance patient comfort during cardio exams

To enhance patient comfort during cardio exams, the inflatable, latex free mattress can be used. It is extra-long to accommodate the patient on the tabletop, and adapts to the shape of the patient's body. The pressure within the mattress is evenly distributed so that it recovers its original shape quickly.

Dimensions of the mattress:
Length: 3165mm
Width: 500mm
Height: 70mm
Radius: 150mm

22	**NCVC005	Equipment Rack DVI	1	$17,913.23	$17,913.23

The Equipment Rack for EP cockpit allows users of the Philips Allura Xper[Clarity] system to organize all the equipment used in an EP Lab on one moveable rack and removes cable clutter through a cable conduit. This provides a much "cleaner" organized look for the busy EP Lab. The ceiling-mounted Equipment Rack, located in the Exam Room, can support 3rd party equipment. Cabling for this equipment is guided up through the ceiling mounted suspension. It can be moved by swiveling the ceiling mounted boom. The Equipment Rack can be positioned within a circular range of 1.6 meters.

The Equipment Rack consists of:

• 5 shelves and 1 drawer with flexible mounting position and can support 150kg of equipment weight.
• An infusion extension rod
• An extension arm with a standard VESA mounting plate, on which different types of equipment can be mounted
• A Wall Connection Box (1 of the standard EP cockpit Wall Connection Boxes) with Power (230V, 50Hz), Grounding, Network (RJ45), Keyboard/mouse (USB) and Video (DVI) connections
• 10 country-specific power connectors
Note: For USA/Canada 16 country specific power connectors
• 4 Ethernet network connectors
• Ergonomically operating handles with electric brakes
• Standard gas outlets for O2, NO2, and Vacuum

Notes:

• Life-supporting equipment cannot be connected to the Equipment Rack.
• Medical equipment with dedicated keyboards or displays should not be connected without consent of the manufacturer. Please contact your 3rd party equipment vendor for information and clearance.
• Please contact 3rd party equipment vendor for information and clearance in case of cable routing through equipment rack.
• The Wall Connection Box can be used to connect 3rd party equipment that complies with the following requirements:
• Qualified medical electrical equipment [IEC 60601-1]
• IEC 950 only if connected to an EP cockpit Wall Connection Box mains (230V) connection in the Control Room or otherwise isolated from hospital mains according IEC60601-1.
• Connected to the same earth as the Philips Protective Conductor Bar (PPCB).
• Can be operated with a standard AT 101-key US English keyboard connected through a USB connection.
• Provide video-output that matches the display range of the Color monitor that is used for display. Standard VESA video formats up to 1920x1200 are supported

23	**989600207421	Equipment rack Predelivery set	1	$1,522.97	$1,522.97

Pre-delivery for Equipment Rack.

100233 Azurion 7 M12					
Line #	**Part #**	**Description**	**Qty**	**Each**	**Price**
24	****NCVC413**	**Electrical Accessory kit OSC**	**1**	**$342.79**	**$342.79**
25	****NCVC414**	**Pre-Install Bracket**	**1**	**$83.25**	**$83.25**
26	****NCVC415**	**Pneumatic Regulator**	**1**	**$142.01**	**$142.01**
27	****980406041009**	**Rad Shield w/ Arm (Contoured) 61X76** Contoured Rad Shield with Arm rest. 61X76	**1**	**$2,879.44**	**$2,879.44**
28	****980406190009**	**PIVOTING TABLE-MOUNTED RADIATION SHIELD** Table-mounted radiation shield for additional protection of physician and staff against scatter radiation. The shield consists of two protective parts: a lower shield and an upper shield. The shield is specially designed for use with the AD57 patient table. The table mounted radiation shield provides the following features: • Mounting to either the right or left table accessory rails; • Pivoting into the required working position; • Pivoting into the parking underneath the tabletop facilitating patient preparation; • The upper shield can be positioned upright providing optimal protection or can be folded down for free access to the patient. The table mounted radiation shield includes: • Lower shield measuring 70 cm high 80 cm wide 0.5 mm Pb equivalence; • Upper shield measuring 40 cm high 50 cm wide 0.5 mm Pb equivalence; • Mounting clamp; Docking device for wall mounting.	**1**	**$2,747.22**	**$2,747.22**
29	****989801220012**	**Cable Spooler**	**1**	**$396.66**	**$396.66**
30	****989801220273**	**Ceiling Track w/Column & Handle Ext** Mavig 2.5m Ceiling Track with Ceiling trolley, 360 degree column, and brake handle extension.	**1**	**$4,319.15**	**$4,319.15**
31	****989801220279**	**LED Single Color Exam Lamp** LED Single Color M LED130F Examination Lamp Portegra2 Extension/Spring Arm Combination with M LED 130F, Single Color, incl. Power Supply Light in new dimension LED lamps support your daily operations through innovative technology and design. In addition to advantages provided by MAVIG with all light equipment, LED technology offers the following enhanced features:	**1**	**$3,124.29**	**$3,124.29**

100233 Azurion 7 M12					
Line #	**Part #**	**Description**	**Qty**	**Each**	**Price**
		• Faceted multi-lens system • In-depth illumination • Superior color rendition • Extension arm 750mm • Spring arm 900mm • LED-Examination-light • Operating voltage is 24V DC. The lamp is supplied with a transformer, should it be used with 230V. Technical data LED 130F: • Light intensity at 1 meter distance: 60.000 Lux • Color rendering index: Ra = 95 • Focusable: yes • Focusable size of the light field: 14-25 cm • Color temperature: 4500 Kelvin • Electronic light intensity control at the lamp head: standard dimming range: 50 - 100 % • Temperature increase in head area: 0.5° C • Mains: 230 V / 60 Hz • Power consumption: 28 W • Number of LEDs: 19 • Life-span of the LEDs: > 40.000 h • Diameter of the lamp head: 33 cm • Working distance: 70 - 140 cm • Height Adjustment: 117 cm			
32	****989801220375**	**Black Anti-fatigue Floor Mat w/logo.** Black Anti-fatigue Floor Mat with Philips Logo 36" x 60"	**1**	**$195.88**	**$195.88**
33	****989801220380**	**Full Load Remote UPS** MGE Galaxy 5000 80 kVA Full Load – 40kW UPS with remote capability. Includes top feed cabinet and optional side panels, ISX0001369526 G5TUPSU80KPAdjacent MGE Galaxy 5000 Battery Cabinet with one full string of batteries and standard Galaxy 5000 Adjacent battery Temp sensor. High Voltage 6 Alarm Relays Card MGE GALAXY 5000 Remote Alarm Status Panel MGE SNMP/Web Communication Card Top Feed Auxiliary Cabinet In the event of a power loss the UPS provides emergency power to allow system function and full X-Ray exposure and fluoroscopy for up to 15 minutes.	**1**	**$43,656.76**	**$43,656.76**
34	****989600213942**	**AD5 TO XPER TABLE ADAPT. PLATE**	**1**	**$2,110.61**	**$2,110.61**
35	**SP003**	**Installation Labor** Weekend delivery and first weekend labor.	**1**	**$5,000.00**	**$5,000.00**

100233 Azurion 7 M12

Line #	Part #	Description	Qty	Each	Price
36	SP005	Contract Labor	1	$5,200.00	$5,200.00

Remove and dispose of existing Lab 3 imaging equipment.

********PROMOTIONS********

Promotion Name	Description
ClarityIQ New and Refurbished System Promo 2018Q2	Philips is pleased to offer this special $55,000 discount for customers purchasing systems with ClarityIQ. To take advantage of this promotion, customer orders must be placed prior to June 30, 2018.
Monoplane Closer Promo 2018Q2	Philips is pleased to offer this special promotional discount of $50,000 on the purchase of a monoplane interventional x-ray system. To take advantage of this promotion, customer orders must be placed prior to June 30, 2018.

100233 Azurion 7 M12

LIST PRICE	$2,807,150.00
DISCOUNT	$1,532,213.07
	$0.00
NET PRICE	$1,274,936.93

Buying Group: VIZIENT SUPPLY LLC Contract #: XR0312 CV

Addt'l Terms:

Each Quotation solution 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.

Price above does not include any applicable sales taxes.

The preliminary delivery request date for this equipment is:_____.

If you do not issue formal purchase orders indicate by initialing here_____.

Tax Status:

Taxable_____ Tax Exempt_____

If Exempt, please indicate the Exemption Certification Number:_____, and attach a copy of the certificate.

Delivery/Installation Address:

_____

_____

_____

Invoice Address:

_____

_____

_____

Contact Phone #:

_____

Contact Phone #:

_____

Purchaser approval as quoted:

_____

Date:

_____

Title:

_____

This quotation is signed and accepted by an authorized representative in acknowledgement of the system configuration, terms and conditions stated herein.

100233 Azurion 7 M12

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**NCVC409	EP Navigator R5	1	$69,121.16	$69,121.16	_____

EP navigator facilitates catheter navigation in ablation procedures, by providing a three-dimensional (3D) overlay of the real patient anatomy onto live fluoroscopic images. The 3D anatomy is registered to the fluoroscopy and shows the position of all catheters in relation to the anatomy. EP navigator follows the rotation of the C-arc and the movement of the table.

The 3D anatomy is obtained using an intra-procedural 3D rotational scan or a pre-procedural cardiac CT or MR scan, from which the cardiac structures (left atrium, right atrium, left ventricle, right ventricle, aorta, coronary sinus, and trachea) are segmented. Automatic segmentation is provided for the left atrium and trachea. User-aided segmentation is possible for other anatomic structures.

In addition to the overlay functionality onto live fluoroscopic images, the segmented 3D rotational scan, CT or MR anatomy from EP navigator can be seamlessly transferred to a compatible mapping system. This allows navigating catheters on images with real 3D anatomical detail without using X-ray.

Using the Endo View function, the endocardial surface can be visualized, providing a view of important anatomical structures such as, in the left atrium, the pulmonary veins and the ridge to the left atrial appendage. The Point Tagging function allows the placement of tag markers on the surface of the anatomy, to mark sites of interest such as ablation lesions. Using the snapshot functionality, a screen image of the live screen can be made, perfectly suitable for reporting or teaching purposes

Comprehensive parts coverage for EP Navigator including replacement. Labor will be provided if the base plan includes labor coverage or if labor is purchased as an option. If not, labor will be available for purchase at preferred labor rate.

Comprehensive parts coverage for EP Navigator including replacement. Labor will be provided if the base plan includes labor coverage or if labor is purchased as an option. If not, labor will be available for purchase at preferred labor rate.

Clinical Education Program for EP Navigator

CV EP Navigator OnSite Education:

Clinical Education Specialists will provide sixteen (16) hours of CV EP Navigator OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref# 230-100615

2	**NCVC542	Dynamic Coronary Roadmap	1	$30,283.05	$30,283.05	_____

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial

When advancing guidewires and devices through the vasculature during percutaneous coronary interventions, it's important to understand the relationship between the device and the anatomy. Navigation is based on the physician's knowledge of the patient's anatomy as shown on angiograms and live fluoroscopic images. As the physician works, small shots of contrast agent are applied to check the device position shown on the live fluoro image with the anatomical reference provided by the previously acquired angiogram.

Dynamic Coronary Roadmap combines the live fluoro and angiogram image into a single adaptive roadmap image, which provides immediate feedback on the position of the device and its relationship to the anatomy to guide navigation.

Dynamic Coronary Roadmap features include:

• Automatic creation and storage of a dynamic roadmap from each acquired coronary angiogram. Only one roadmap per projection is stored
• Automatic overlay of the dynamic roadmap on live fluoroscopy
• Automatic guidance to reach projections for which a roadmap is available
• The Dynamic Coronary Roadmap functionality is fully integrated in the interventional X-ray system
• Image snapshots or movies can be archived to any DICOM compatible PACS. These include DICOM XA and DICOM SC

Note: when ordering Dynamic Coronary Roadmap and/or StentBoost Live for a non-FlexVision system a single dedicated color monitor must be added to the MCS.

IXR Dynamic Coronary Roadmap Imaging Systems OnSite Education:

Philips Imaging Systems Clinical Education Specialist will provide eight (8) hours of education for up to four (4) students, as selected by customer, including technologists from weekend/night shifts as necessary. CEU credits are not available for this portion of training. 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.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#296309-20170315

3	**NCVD081	**Touch Screen Module Pro**	1	$28,397.70	$28,397.70	_____

Extension of Touch Screen Module for easy control of X-Ray images at table site

Key benefits
- Imaging parameters can be quickly and easily adjusted at tableside
- Clinical image are shown to support easy navigation. Collimate on the clinical image with one finger. Pinch, zoom, pan and flag images for processing. Position shutters and wedges by simply swiping the image on screen.
- All X-ray settings can be easily adjusted to help you effectively manage patient and staff dose

Enhance image navigation on the touch screen module
This option extends the functionality of the touch screen module, allowing live X-ray images and source images from reference monitors to be displayed on the touch screen module. Shutters and wedges can also be easily positioned with a fingertip by simply dragging them into position. A

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial

pointer is also available on screen to improve communication in and between the exam room and control room.

Specifications

- enhance image navigation on the TSM
- intuitive control of shutters and wedges by simply dragging the lines shown on top of the image
- provides intuitive zooming an panning functionality (also during fluoroscopy)
- turns the touchscreen into the pointing device in order to improve communication in ER/CR: when activated the pointer is shown on corresponding monitor

!!! Note: Touchpad and Keyboard control from the TSM is NOT part of this option but 'FlexVision Pro' option.

!!! Note: Images shown on the TSM are not meant for diagnostic purposes (image is downscaled, compressed and latency during live/replay maybe higher than on the live monitor)

4	**FCV0604	DoseAware Bundle	1	$23,706.38	$23,706.38	_____

DoseAware is a unique solution providing staff working in an X-Ray environment with direct, real time dose feedback, enabling them to optimize their behaviour and reduce exposure to scattered dose. The DoseAware bundle comprises:

- 1 BaseStation Package
- 10 PDMs
- DoseManager
- 2 PDM racks.

Base Station Package

The Base Station is the heart of the DoseAware system. It offers Online View, which displays real time dose rate and immediate dose data for any Personal Dose Meter (PDM) in range. The Walk-Up View enables easy access to personal dose history and PDM settings.
The Base Station has a touch screen interface and wireless communication with the PDM. The PDM dose information is stored within the Base Station and can be retrieved by the DoseAware Dose Manager software via a standard network interface to complete the DoseAware system with archiving and reporting functions.
The Base Station package includes also:

- a cradle and the DoseView software package that can be installed on a local PC (not included), which has Windows XP or Vista as operating system.
- Mounting material for the Base Station, facilitating mounting on a wall or on a Philips Monitor Ceiling Suspension or a Philips mobile C-arm system.

10 Personal Dose Meters

The Personal Dose Meter (PDM) is a small and easy to wear active X-ray dose meter intended to measure and store received X-ray dose of staff, present in an X-ray room during radiation. The PDM has build-in radio-frequency wireless communication (868.3 Mhz for Europe version, 915 Mhz for USA version) to connect to the DoseAware Base Station for real time dose-rate indication and has a long battery life for maintenance-free usage. In addition it can be personalized to increase interest and awareness. The PDM not only records warning level profiles every second for a total of 3600 sec (cyclic overwritten), but also stores accumulated dose data every hour for maximum 5 years. A clip and a lanyard holder are included to facilitate easy wearing.

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial

The PDM can be configured via the cradle, DoseView, and Dose Manager Software.

Dose Manager Package

The Dose Manager is a software program that serves as archive and reporting facility for all dose data of the DoseAware system. It allows tracking of multiple PDM's at a location.

Core functionality is:

- Store and manage dose history for multiple PDM's
- Collect all dose history from connected Base Stations via the network
- Browse dose history of PDM's as graph or table
- Export dose data for personal analysis with other software tools, like Windows Excel
- Create and print reports of dose history

5 ****989801220158** **Mark 7 Arterion, Table Mount** **1** **$27,912.90** **$27,912.90** _____

The Mark 7 Arterion Injection System is the latest in MEDRAD's "Mark" series of angiographic injectors. Compared to earlier systems, the Mark 7 Arterion injector head is lighter and easier to use so you can focus more on the patient.
The clear and intuitive user interface guides you through proper set-up, and highlights the information you need to perform safe procedures.
Unique to the market, the front load system simplifies set-up and makes for a cleaner tear down.
The clear syringe provides a higher level of confidence that you are ready to inject.

Made from a clear material, the Mark 7 Arterion syringe (Catalog ART 700 SYR) allows you to easily view the inside of the syringe for smoother purging of air. And MEDRAD's famous fluid dots are still there to help-round for fluid, oval for air.
The table mount injector solution ensures the contrast injector is conveniently placed and always available when it is needed. It provides a clean workspace without occupying valuable floor space.
System includes:

- Table Mount
- display control panel
- 6 ft. coiled hand switch
- operation manual (CD)
- 10 ft. head cable
- syringe heat maintainer
- imaging system interface cable for the Allura / Allura Xper
- consumables starters kit

For the MEDRAD Mark7 Injector system Philips is only the distributor. MEDRAD provides the service as well as the application support of both versions unless stated differently in the Philips Service Agreement

System Specifications:

100233 Azurion 7 M12

OPTIONS

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
		• Flow Rate 0.1-45.0 ml/s in 0.1 ml increments				
		• 0.1-59.9 ml/m in 0.1 ml increments				
		• Volume 1-150 ml in 1 ml increments				
		• Pressure Limit 100-1200 psi in 1 psi increments				
		• (150ml syringe) 689-8273 kPa in 1 kPa increments				
		• Rise Time 0.0-9.9 seconds in 0.1 increments				
		• Delay Time 0.0-99.9 seconds in 0.1 increments				
		• Fill Speed 1-20 ml/s				
		• Fill Volume 1-150 ml				
		• Syringe Size 150 ml				
		• Syringe Heat Maintainer 35 °C (95 °F) ± 5 °C (9 °F)				
		• Protocol Memory 40 Protocols				
		• Injection Memory History				

PHILIPS PRODUCT WARRANTY

CARDIOVASCULAR SYSTEMS (CV)

This product warranty document is an addition to the terms and conditions set forth in the quotation to which this warranty document is attached. Unless specifically listed below, this warranty does not apply to replacement parts. The terms and conditions of the quotation are incorporated into this warranty document. The capitalized terms herein have the same meaning as set forth in the quotation.

1. Twelve (12) Month System Warranty

1.1 Philips Healthcare a division of Philips North America LLC ("Philips") warrants to Customer that the Philips Cardio Vascular Systems ("System") will perform in substantial compliance with its performance specifications, in the documentation accompanying the System, for a period of twelve (12) months after completion of installation or availability for first patient use, whichever occurs first.

1.2 Any glassware or flat detectors provided with the System is subject to special warranty terms set forth below.

2. Planned Maintenance

2.1 During the warranty period, Philips service personnel will schedule planned maintenance visits, in advance, at a mutually agreeable time on weekdays, between 8:00 A.M. and 5:00 P.M. local time, excluding Philips observed holidays.

3. System Options, Upgrades or Accessories.

3.1 Any Philips authorized options, upgrades, or accessories for the System which are delivered and/or installed on the System during the original term of the System warranty shall be subject to the same warranty terms contained in the first paragraph of this warranty, except that such warranty shall expire on the later of: (a) upon termination of the initial twelve (12) month warranty period for the System on which the option or accessory is installed, b) after ninety (90) days for parts only from the date of installation.

4. MRC X-ray TUBES

4.1 Philips warrants to Customer, for the warranty periods further specified in this section, that the Philips X-Ray tube will be substantially free from defects in material and manufacturing workmanship, which impair performance under normal use as specified in Philips System descriptions and specifications.

4.2 The warranty period for MRC tubes provided with Customer's purchase of a new or refurbished X-ray system shall be the shorter of thirty-six (36) months after installation or thirty-eight (38) months after date of shipment from Philips.

4.3 The warranty period for purchases of replacement tubes shall be the shorter of twelve (12) months after installation or fourteen (14) months after date of shipment from Philips.

5. MRC Tube Warranty Exclusion

5.1 The above warranty shall not apply to X-ray tubes outside the United States and Canada.

5.2 Philips obligations under the System warranty do not apply to any System defects resulting from: improper or inadequate maintenance or calibration by Customer or its agents; Customer or third party supplied software, interfaces, or supplies; use or operation of the System other than in accordance with loss, or damage in transit; improper site preparation; unauthorized maintenance or Philips applicable System specifications and written instructions; abuse, negligence, accident, modifications to the System; or, to viruses or similar software interference resulting from the connection of the System to a network.

6. MRC Tube Warranty Remedies

6.1 If a tube is found to fail during the warranty period, and if, in the best judgment of Philips, the failure is not due to neglect, accident, improper installation, use contrary to instructions, or the exclusions stated above, Philips tube warranty liability hereunder is limited to, at Philips option, the repair or replacement of the tube.

6.2 Any replacement tube would have a warranty period equal to the balance of the warranty period left on the tube replaced.

7. Dynamic Flat Detectors

7.1 Philips warrants the flat detectors provided with the System, if any, will be free from defects in material and manufacturing workmanship for twelve (12) months.

7.2 Claims must be made within twelve (12) months after installation or fifteen (15) months after date of shipment from Philips, whichever occurs first.

7.3 If a detector fails to meet this warranty, as Customer's sole and exclusive remedy, upon return of the detector, Philips will provide Customer a replacement detector at no additional charge.

8. System Software and Software Updates

8.1 The software provided with the System will be the latest version of the standard software available for that System as of the ninetieth (90th) day prior to the date the System is delivered to Customer.

8.2 Updates to standard software for the System that do not require additional hardware or equipment modifications will be performed as a part of normal warranty service during the term of the warranty.

8.3 All software is and shall remain the sole property of Philips or its software suppliers.

8.4 Use of the software is subject to the terms of a separate software license agreement. Customer must sign all such license agreements prior to or upon the delivery of the product.

8.5 No license or other right is granted to Customer or to any other party to use the software except as set forth in the license agreements.

8.6 Any Philips maintenance or service software and documentation provided with the System and/or located at Customer's premises is intended solely to assist Philips and its authorized agents to install and to test the System, to assist Philips and its authorized agents to maintain and to service the System under a separate support agreement with Customer, or to permit Customer to maintain and service the System.

8.7 Customer agrees to restrict the access to such software and documentation to Philips employees, those of its authorized agents, and to authorized employees of Customer only.

9. Warranty Limitations

9.1 Philips sole obligations and Customer's exclusive remedy under any product warranty are limited, at Philips option, to the repair or the replacement of the product or a portion thereof, within thirty (30) days after receipt of written notice of such material breach from Customer ("Product Warranty Cure Period") or, upon expiration of the Product Warranty Cure Period, to a refund of a portion of the purchase price paid by the Customer upon Customer's request.

9.2 Any refund will be paid, to the Customer when the product is returned to Philips.

9.3 Warranty service outside of normal working hours (i.e 8:00 AM to 5:00 PM, Monday through Friday, excluding Philips Observed holidays), will be subject to payment by Customer at Philips standard service rates.

9.4 This warranty is subject to the following conditions: the product (a) is to be installed by authorized Philips representitives (or is to be installed in accordance with all Philips installation instructions by personnel trained by Philips); (b) is to be operated exclusively by duly qualified personnel in a safe and reasonable manner in accordance with Philips written instructions and for the purpose for which the products were intended; and (c) is to be maintained and in strict compliance with all reccommended and scheduled maintenance instructions provided with the Product.

9.5 Philips' obligations under any product warranty do not apply to any product defects resulting from: improper or inadequate maintenance or calibration by the Customer or its agents; Customer or third party supplied interfaces, supplies, or software including without limitation loading of operating system patches to the Licensed Software and/or upgrades to anti-virus software running in connection with the Licensed Software without prior approval by Philips; use or operation of the product other than in accordance Philips' applicable product specifications and written instructions; abuse, negligence, accident, loss, or damage in transit; improper site perparation; unauthorized maintenance or modifications to the product; or, viruses or similar software interference resulting from connection of the product to a network.

9.6 Philips does not provide a warranty for any third party products furnished to Customer by Philips under this quotation; however, Philips shall use reasonable efforts to extend to Customer the third party warranty for the product.

9.7 The obligations of Philips described herein and in the applicable product-specific warranty document are Philips only obligations and Customer's sole and exclusive remedy for a breach of a warranty.

9.8 THE WARRANTIES SET FORTH HEREIN AND IN PHILIPS WARRANTY DOCUMENT WITH RESPECT TO A PRODUCT (INCLUDING THE SOFTWARE PROVIDED WITH THE PRODUCT) ARE THE ONLY WARRANTIES MADE BY PHILIPS IN CONNECTION WITH THE PRODUCT, THE SOFTWARE, AND THE TRANSACTIONS CONTEMPLATED BY THE QUOTATION, AND ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, WHETHER WRITTEN, ORAL, STATUTORY, EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF NON-INFRINGEMENT MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

9.9 Philips may use refurbished parts in the manufacture of the products, which are subject to the same quality control procedures and warranties as for new parts.

10. Remote Services Network ("RSN").

10.1 Customer will (a) provide Philips with a secure location at Customer's premises to store one Philips remote services network router and provide full and free access to this router, (or a Customer-owned router acceptable to Philips) for connection to the equipment and to Customer's network; or (b) provide Philips with outbound internet access over SSL; at all times during the warranty period provide full and free access to the equipment and the Customer network for Philips use in remote servicing of the product, remote assistance to personnel that operate the products, updating the product and regular uploading of products data files (such as but not limited to error logs and utilization data for improvement of Philips products and services and aggregation into services).

10.2 Customer's failure to provide such access will constitute Customer's waiver of the scheduled planned maintenance service and will void support or warranty coverage of product malfunctions until such time as planned maintenance service is completed or RSN access is provided.

10.3 Customer agrees to pay Philips at the prevailing demand service rates for all time spent by Philips service personnel waiting for extended coverage.

11. Transfer of System

11.1 In the event Customer transfers or relocates the System, all obligations under this warranty will terminate unless Customer receives the prior written consent of Philips for the transfer or relocation.

11.2 Upon any transfer or relocation, the System must be inspected and certified by Philips as being free from all defects in material, software and workmanship and as being in compliance with all technical and performance specifications.

11.3 Customer will compensate Philips for these services at the prevailing service rates in effect as of the date the inspection is performed.

11.4 Any System which is transported intact to pre-approved locations and is maintained as originally installed in mobile configurations will remain covered by this warranty.

12. Limitation of Liability

12.1 THE TOTAL LIABILITY, IF ANY, OF PHILIPS AND ITS AFFILIATES FOR ALL DAMAGES AND BASED ON ALL CLAIMS, WHETHER ARISING OR RELATING TO FROM BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIABILITY OR OTHER TORT, OR OTHERWISE, ARISING FROM A PRODUCT, LICENSED SOFTWARE, AND/OR SERVICE IS LIMITED TO THE PRICE PAID HEREUNDER FOR THE PRODUCT, LICENSED SOFTWARE, OR SERVICE GIVING RISE TO THE LIABILITY.

12.2 THIS LIMITATION SHALL NOT APPLY TO:

(a) THIRD PARTY CLAIMS FOR DIRECT DAMAGES FOR BODILY INJURY OR DEATH TO THE EXTENT CAUSED BY PHILIPS NEGLIGENCE OR PROVEN PRODUCT DEFECT.

(b) CLAIMS OF TANGIBLE PROPERTY DAMAGE REPRESENTING THE ACTUAL COST TO REPAIR OR REPLACE PHYSICAL PROPERTY TO THE EXTENT CAUSED BY PHILIPS NEGLIGENCE OR PROVEN PRODUCT DEFECT;

(c) OUT OF POCKET COSTS INCURRED BY CUSTOMER TO PROVIDE PATIENT NOTIFICATIONS, REQUIRED BY LAW, TO THE EXTENT SUCH NOTICES ARE CAUSED BY PHILIPS UNAUTHORIZED DISCLOSURE OF PHI; and;

(d) FINES/PENALTIES LEVIED AGAINST CUSTOMER BY GOVERNMENT AGENCIES CITING PHILIPS UNAUTHORIZED DISCLOSURE OF PHI AS THE BASIS OF THE FINE/PENALTY, ANY SUCH FINES OR PENALTIES SHALL CONSTITUTE DIRECT DAMAGES,

13. Disclaimer

13.1 IN NO EVENT SHALL PHILIPS OR ITS AFFILIATES BE LIABLE FOR ANY INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR THE COST OF SUBSTITUTE PRODUCTS OR SERVICES WHETHER ARISING FROM BREACH CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, INDEMNITY, STRICT LIABILITY OR OTHER TORT.

14. FORCE MAJEURE

14.1 Philips and Customer shall each be excused from performing its obligations arising from any delay or default caused by events beyond its reasonable control including, but not limited to: acts of God, acts of third parties, acts of the other party, acts of any civil or military authority, fire, floods, war, embargoes, labor disputes, acts of sabotage, riots, accidents, delays of carriers, subcontractors or suppliers, voluntary or mandatory compliance with any government act, regulation or request, shortage of labor, materials or manufacturing facilities.

Philips system specifications are subject to change without notice

Non Disclosure Agreement for Philips Confidential Pricing Information

The parties specified below agree to the following terms:

A. Philips

Name	Philips Healthcare, a division of Philips North America LLC
Address	22100 Bothell-Everett Highway, Bothell, WA 98021 United States of America

B. Company

Name	MOSES H CONE HEALTH SYSTEM
Address	1200 N ELM ST GREENSBORO, NC 27401-1004

C. Confidential Information

Authorized Purpose	To evaluate Philips' confidential information relating to pricing for imaging equipment ("Pricing") in connection with the potential purchase of such imaging equipment.
Period	Begins on the date Pricing is first disclosed and continues for 5 years from date Pricing is last disclosed.

D. Philips Contact

Name	Kimberly Bates
Title	
Telephone	(704) 577-2484
Fax	
e-mail	
Signature	

Company Contact

Name	
Title	
Telephone	
Fax	
e-mail	
Signature	

1. The following terms and conditions (the "Agreement") apply to Pricing disclosed by Philips and its Affiliates ("Philips") to Company and its Affiliates ("Company"), in connection with the Authorized Purpose.

   (a) Subject to Philips' prior written consent, Company may disclose, or request that Philips disclose, Pricing to Company's Affiliates that need to know the Pricing for carrying out the Authorized Purpose, provided they are advised of and agree to be bound by this Agreement. Company is responsible for any breach of this Agreement by its Affiliates.

   (b) An Affiliate is any corporation, company, or other entity, that: (i) is under the Control of a party hereto; or (ii) has Control of a party hereto; or (iii) is under common Control with a party hereto. For this purpose "Control" means that more than fifty percent (50%) of the controlled entity's shares or ownership interest representing the right to make decisions for such are owned or controlled, directly or indirectly, by the controlling entity.

2. Philips may disclose Pricing to Company with respect to the Authorized Purpose in writing, orally, or otherwise. All information is assumed to be Pricing, and confidential, if the confidential or proprietary nature is reasonable under the circumstances.

3. All Pricing disclosed by Philips shall remain Philips' the property. Company does not, by implication, estoppel, or otherwise, acquire any intellectual property right, title, or ownership, nor a license to any such intellectual property right, with respect to any Pricing disclosed by Philips hereunder.
   ALL PRICING IS PROVIDED ON AN "AS IS" BASIS, WITHOUT ANY WARRANTY WHATSOEVER. PHILIPS SHALL HAVE NO LIABILITY WHATSOEVER RESULTING FROM THE USE OF THE INFORMATION PROVIDED.

4. Company shall:
   (a) not use the Pricing for any purpose other than the Authorized Purpose;
   (b) not disclose the Pricing to any third party;
   (c) protect the Pricing against disclosure in the same manner and with the same degree of care with which Company protects its own confidential information but not less than a reasonable degree of care; and
   (d) limit circulation of the Pricing to Company's employees as have a need to know in connection with the Authorized Purpose.
   These obligations shall survive the termination of this Agreement. Philips may terminate this Agreement at any time by means of a written notice to Company. Company shall return to Philips, or certify destruction of, all Pricing, immediately upon termination or expiration of this Agreement.

5. Information disclosed by Philips to Company pursuant to this Agreement shall not be confidential to the extent that the information:
   (a) is or becomes part of the public domain without violation of this Agreement or any other obligation of confidentiality;
   (b) is known by Company prior to disclosure by Philips;
   (c) is lawfully obtained by Company from a third party without any breach of confidentiality or violation of law; or
   (d) is developed by Company completely independently of any such disclosure by Philips.

6. If Company is required, pursuant to administrative or judicial action or subpoena, to disclose the Pricing, Company shall use its best efforts to maintain the confidentiality of the Pricing, e.g. by asserting in such action any applicable privileges. Immediately after gaining knowledge or receiving notice of such action or subpoena, Company shall notify Philips and give Philips the opportunity to seek any other legal remedies so as to maintain such Pricing in confidence, including a reasonable protective order.

7. Company may not transfer or assign any or all of its rights and/or obligations or delegate the performance of any or all of its obligations under this Agreement, directly or indirectly, through acquisition, merger or otherwise, without the prior written consent of Philips. Any transfer, assignment or delegation in contravention of the foregoing shall be void.

8. Company shall not disclose, export or release the Pricing in contravention of any applicable laws or regulations.

9. This Agreement shall be governed and construed in accordance with the laws of the State of New York, without giving effect to its conflict of laws provisions.

10. This Agreement contains the entire understanding of the parties and supersedes any previous understandings or agreements with respect to the subject matter hereof. This Agreement may be amended only in writing signed by authorized representatives of each party.