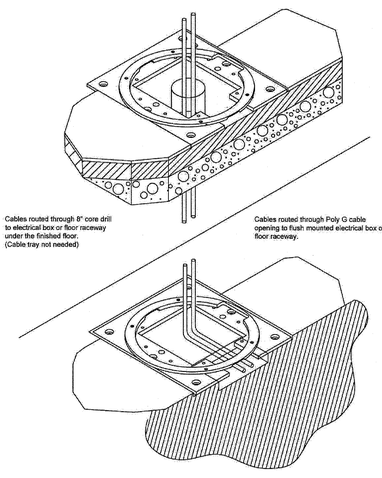
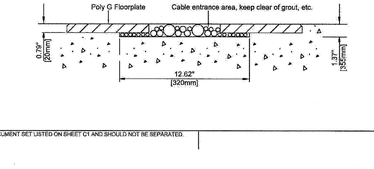
Detail - Poly G Floorplate Cable Entrance

Floorplate delivered from BEST
(Not to scale)



Cables routed through 8" core drill to electrical box or floor raceway under the finished floor. (Cable tray not needed)

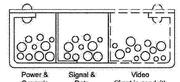
Cables routed through Poly G cable opening to flush mounted electrical box or floor raceway.



(08.0)

Detail - Cable Trough Divisions

Troughs or ducts must be separated by metal barriers into three sections:
1. High voltage (H.T.) cables to be run separately from all cables.
2. Power cables and ground cables can be run together.
3. Signal cables and data cables can be run together but must be separated from power cables.
4. Video cables to be run separately from all other cables.



5. It is important that all cables are placed in the appropriate trough and at no given point do any cables from one division cross cables from another. Trough separation must be continuous from the beginning to the end of the run. Utilize crossover tunnels as appropriate.
6. Trough or ducts: steel with steel dividers grounded to building ground.
7. Contractor to provide cable restraints in all troughs.
8. Acceptable cross-overs: Walker DuctCat. #RPD16-TUN-3C / Square D Cat. #RSV122ST

WR3 WR2 R1

(10.0)

PHILIPS

Project	Allura Biplane FD10/10 Maine Medical Center Portland, ME - Cath Lab #6
Philips Contacts	Project Manager: Wayne Erwin Contact Number: (207) 781-1646 Email: wayne.erwin@philips.com
Project Details	Drawing Number: N-EAS1101154S Date Drawn: 11-4-2010 Quote: 1-POE8DS Rev 12 Order:6600107976,001000
Drawn By: Kim, Wenhee	

ED3

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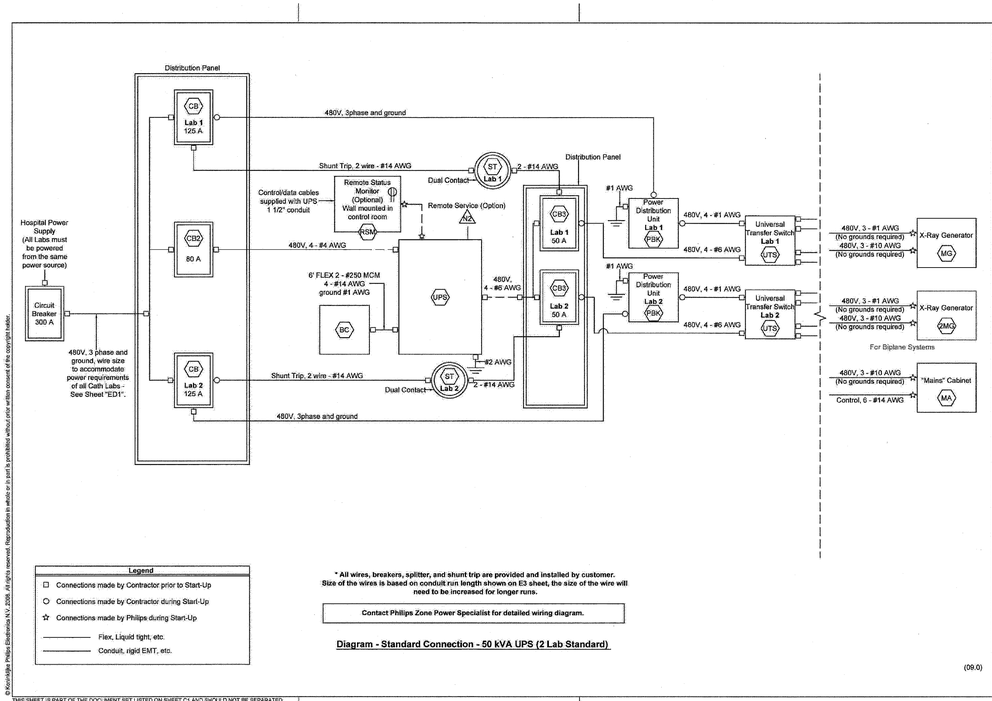

Legend

- □ Connections made by Contractor prior to Start-Up
- ○ Connections made by Contractor during Start-Up
- ☆ Connections made by Philips during Start-Up
- ——— Flex, Liquid tight, etc.
- ——— Conduit, rigid EMT, etc.

*** All wires, breakers, splitter, and shunt trip are provided and installed by customer. Size of the wires is based on conduit run length shown on E3 sheet, the size of the wire will need to be increased for longer runs.**

Contact Philips Zone Power Specialist for detailed wiring diagram.

Diagram - Standard Connection - 50 kVA UPS (2 Lab Standard)

(09.0)

PHILIPS

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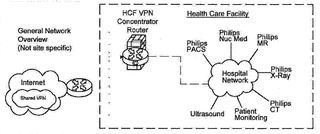
Philips Healthcare Remote Services Network (RSN)

Secure broadband connection required for Philips remote technical support, diagnostics, and applications assistance

Broadband Site-to-Site Connectivity (Preferred)
This connectivity method is designed for customers who prefer a connection from the RSN Data Center to the Health Care Facility (HCF) utilizing their existing VPN equipment.

Connectivity Details:
- A Site-to-Site connection from the RSN data center's Cisco router will be established to the HCF's VPN concentrator.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE as standard, but alternative standards are also available, such as AES, MD5, SHA, Security Association lifetime and Encryption Mode.
- Every system that we will be servicing remotely will have a static NAT IP that we configure on the RSN Data center side.

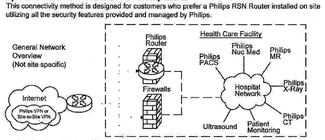


Action Required by Hospital:
- Review and approve connection details.
- Complete appropriate Site Checklist.
- Configure and allow Site-to-Site access prior to setting up connectivity depending on the access criteria that the HCF decides to implement (ex: Source IP filtering, destination IP filtering, NAT assignment, etc.).
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to the designed IP provided by Philips.

Broadband Router Installed at Health Care Facility
This connectivity method is designed for customers who have a dedicated high speed connection for Philips equipment.

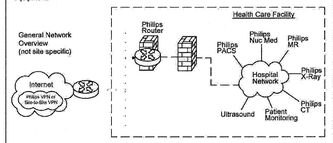
Connectivity Details:
- An RSN Cisco 1711 or 1712 router will be preconfigured and installed at the HCF by Philips in conjunction with the HCF IT representative.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE and will be established from the RSN-DC and terminated at the RSN Router on-site.
- One to One NAT is used to limit access to Philips equipment only.
- Router Config and IP auditing is enabled for Customer IT to view via website 24/7.
- Dedicated DSL connections are also supported.

Option 1: Parallel to HCF Firewall Connectivity Method
This connectivity method is designed for customers who prefer a Philips RSN Router installed on site utilizing all the security features provided and managed by Philips.



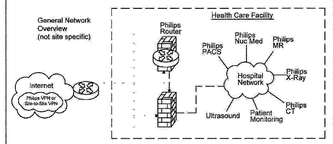
Action Required by Hospital:
- Assign a fixed public IP address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.

Option 2: Back End Connected to the HCF Firewall Connectivity Method
This connectivity method is designed for customers who prefer a Philips RSN Router installed on site by setting up an IP-Based policy allowing access thru existing HCF Firewall to Philips equipment.



Action Required by Hospital:
- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the DASHED line interface IPSec protocol communication by opening protocol 500, 50, 51, 47 and port 23 + TACACS. Traffic should be between external IP Address located on the Philips router and the RSN Data center IP address 192.68.48/24 and IP address AOSN TACAS.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Option 3: Router Installed Inside the HCF's DZM
This connectivity method is designed for customers who prefer the RSN Router installed inside and existing, or new DMZ, allowing access to Philips equipment.



Action Required by Hospital:
- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

PHILIPS

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N1

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Instructions

This form is to be used by Project Manager, Contractor and Service Engineer.

Information is used to develop and determine site ready date.

Items listed are go/no go items for delivery unless noted as delay only items.

Items identified with *** as delayed items must be completed after hours or on weekend. These items cannot be accomplished while installation is in progress. Also, these items must be completed within two days of installation start or they may stop installation.

Site Readiness Checklist

Modality: _____

Order: _____

Site Name: _____

Location: _____

Contact Name: _____

Contact Phone Number: _____

- ☐ Customer site preparation verified in general against the Philips final planning drawings.
- ☐ Walls finished including painting.
- ☐ Doors installed.
- ☐ Floor leveled according to Philips drawings and specifications.
- ☐ Floors are tiled/covered finished. Flooring is covered with protective covering (scratch protection).
- ☐ Ceiling lights installed.
- ☐ Cable conduit and ductwork installed and clean. Position checked. Duct covers in place but not finally closed. Cable opening are clear, without sharp edges. Pull strings in conduit. Installation per Philips specifications.
- ☐ HVAC environmental equipment installed and working according to Philips specifications.
- ☐ Ceiling installation completed.
- ☐ Electrical preparation according to Philips specifications.
- ☐ All network cabling, drops installed according to Philips specifications (including hardcopy cameras).
- ☐ All pre-cabling identified on Philips drawings has been installed.
- ☐ Pre-move survey completed - Delivery route identified.
- ☐ Lead glass installed ***.
- ☐ X-ray warning lights installed ***.
- ☐ Dedicated phone line for modem use***.
- ☐ Room has been cleaned ***.
- ☐ Cabinets and casework installed***.
- ☐ RSN survey completed and submitted
- ☐ Philips RSN Champion contacted.

Approved for Delivery

Project Manager _____ Date _____

Service Engineer _____ Date _____

Items Specific for the Cardio/Vascular modality

- ☐ Unistrut installed and level according to Philips specifications
- ☐ Floor plates installed and level according to Philips specifications
- ☐ All cover plates have holes punched and nipples required and bushings installed
- ☐ Emergency power requirements installed according to Philips specifications
- ☐ Building steel ground installed to PDU
- ☐ Room electrical grounds installed to PPC middle section
- ☐ Conduit lengths measured according to Philips specifications. NOTE: Specifications is from source box to destination box (not just conduit run length)
- ☐ Routing of ductwork and conduits must be installed according to Philips specifications

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SMRT

PROJECT NORTH

MAINE MEDICAL CENTER
CATH. LAB # 6
PORTLAND, ME

ISSUED FOR CONSTRUCTION
12.21.10

CURRENT ISSUE STATUS:

REV	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	12.21.10

GRAPHIC SCALE: 0" 1"

SCALE:
PROJECT MANAGER: KD
JC/DRAWN BY:
A/E OF RECORD:
PROJECT NO: 10112-00
DATE: 12.21.10

SHEET TITLE:
VENDOR EQUIPMENT DRAWINGS, SHEET 7

SHEET No.
Q-007

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