

SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"

RADIATION SCATTER 0.1 0.2 0.1 0.1 0.2 -1.5 -1 -0.5 -0 0.5 1 1.5 2 2.5 3

SYMBIA INTEVO 2

VERTICAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN mGy/As SCALE 1/4"=1'-0"

THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 2 x 5 mm AT 130 kV AND 180 mAs/SCAN THROUGH THE SYSTEM AXIS IN THE VERTICAL PLAN THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND A LENGTH OF 16 CM. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

SIEMENS REMOTE SERVICES (SRS)

PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO

(PREFERRED) VPN CONNECTION

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE

HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES

ROUTER REQUIRED.

WITH DELIVERY.

CUSTOMER

NETWORK

(1) 110 V

NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE

FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE

POSSIBILITY FOR REMOTE SYSTEM DIÁGNOSTICS WITHOUT ADDITIONAL

(800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR

(OPTIONAL) SRS ROUTER CONNECTION

THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE

CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS.

THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN

ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS

ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.

THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION

(CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED

SRS ROUTER CONNECTION DIAGRAM

ROUTER

NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.

* OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN

| SIEMENS REMOTE SERVICE | SCALE NONE

(1) ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER

(SIZE: 11.2"W X 8.7"D X 5.5"H, WEIGHT: 2 LBS.)

(4) ANALOG PHONE LINE, SUPPLIED BY CUSTOMER

SRS ROUTER, SUPPLIED BY SIEMENS

(3) ANALOG MODEM, SUPPLIED BY SIEMENS

BE ORDERED FROM SIEMENS.

(D) 110 V

THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE

SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS

EAD OR EQUIVALENT SHIELDING MAY BE REQUIRED IN THE WALLS OF THE SCANNER ROOM, HOTLAB AND/OR PATIENT PREPARATION AREAS. IT IS THE RESPONSIBILITY OF THE USTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE SPECT PATIENT AND/OR ISOTOPE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.

RADIATION SAFETY

SAFETY CLEARANCE NOTE

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE

UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY **RADIOACTIVE SOURCES**

THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED FOR ALL SYMBIA INTEVO SYSTEMS AT THE TIME OF INSTALLATION FOR **CALIBRATION:**

10-20 mCi Co57 (COBALT 57) OR LIQUID FILLED Tc99 FECHNETIUM 99) SHEET SOURCE (FOR EXTRINSIC FLOOD).) POINT SOURCE 30-35 uCi Tc99 (FOR INTRINSIC FLOODS, TUNING AND PEAKING).

3) QUANTITY OF 5 - 1 mCi Tc99 POINT SOURCES (FOR

) QUANTITY OF 10 Tc99 POINT SOURCES WITH COMBINED ACTIVITY OF ALL SOURCES 5 mCi TO 20 mCi (FOR NM/CT FOV)

IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES PRIOR TO INSTALLATION. CO-57 RECTANGULAR FLOOD SHEET SOURCE MAY BE ORDERED FROM SIEMENS (ASK SIEMENS SALES ASSOCIATE). Tc99 MUST OBTAINED THROUGH CUSTOMER'S LOCAL RADIOACTIVE SOURCE PROVIDER.

HESE RADIOACTIVE SOURCES AREA NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT. PLEASE NOTE SOURCE PROVIDERS

RAM LICENSE

RAM LICENSE NEEDS TO BE APPLIED FOR THROUGH GOVERNMENT AGENCY AS EARLY AS POSSIBLE. PLEASE ADDRESS WITH YOUR RSO (RADIATION SAFETY OFFICER).

RAM LICENSE MUST BE OBTAINED NO LATER THAN 4 WEEKS AHEAD OF SCHEDULED DELIVERY. DELAY OF INSTALLATION MAY OCCUR IF SITE HAS NOT OBTAINED RAM LICENSE AT THIS TIME. RADIOACTIVE SOURCES NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT WILL NOT BE SHIPPED TO SITE WITHOUT VALID RAM

LIGHTING GUIDELINES ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER. HOWEVER. SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS A GENERAL

1) OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP

AND MAINTENANCE OF EQUIPMENT. 2) THE LIGHTING IN ROOMS IN WHICH DIAGNOSES ARE MADE ON VIDEO DISPLAY UNITS (MONITORS) MUST MEET THE FOLLOWING

- ADJUSTABLE, GLARE-FREE AND REPRODUCIBLE SETTING OF LIGHTING (I.E. DIMMER WITH SCALE)

GUIDE ONLY, WHEN PLANNING FOR LIGHTING.

- NO REFLECTIONS FROM WINDOWS, LAMPS AND VIEWING BOXES WHEN THE MONITORS ARE IN THEIR STANDARD OPERATING POSITION.

SYMBIA INTEVO

PROJECT MANAGER: RICH DEISTER (207) 712-3205 FAX: (207) 929-3776 EMAIL: RICH.DEISTER@SIEMENS.COM MAINE MEDICAL CENTER R-101RA VERSION DATED 08/27 09/12/14 APPROVED BY THE CUSTOMER FOR FINALS DATE DESCRIPTION SCALE: REF. #: 1-291XKI

-ISSUE BLOCK-

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PROJECT #: 1402948 2 6 R. HILL

09/12/14

22 BRAMHALL STREET, PORTLAND, ME 04102 SPECT/CT #1 B337 - SYMBIA INTEVO 2

SIEMENS

METERS 10 13 10 1 5 4 4 -1.5 -1.0 -0.5 0 0.5 1.0 1.5 **METERS** SYMBIA INTEVO 2 HE HORIZONTAL PLANE THROUGH THE SYSTEM AXIS. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND A LENGTH OF 16 CM. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE. - INDICATES SPECT ORIENTATION POINT

RADIATION SCATTER

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING

VALUES ARE NOT EXCEEDED.	
MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES
0.2mT (2 GAUSS)	SIEMENS CT PORTION OF SYMBIA SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITOR (FOR LIQUID CRYSTAL DISPLAYS ONLY)
0.1mT (1.0 GAUSS AC OR DC)	SIEMENS HAS ESTABLISHED THE UPPER LIMITS OF MAGNETIC FIELD EXPOSURE FOR THE SYMBIA DETECTORS
MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY.	

FINISHED ROOM HEIGHT

NTEVO 6, INTEVO 16 SYMBIA INTEVO EXCEL, INTEVO 2. RADIATION ON LAMP

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM, ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

SYMBIA INTEVO EXCEL, INTEVO 2, MINIMUM 8'-0"

INTEVO 6, INTEVO 16 WITH CEILING MINIMUM 8'-2" MOUNTED COMPONENT OTHER THAN MAXIMUM 12'-0"

ATTENTION:

DOCUMENTS FOR REFERENCE.