The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer’s responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.
## Equipment Legend

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>SMS</th>
<th>Weight (lbs)</th>
<th>BTU/hr to Air</th>
<th>Dimensions (inches)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Operating Control Console w/ Keyboard and Control Box</td>
<td>☐</td>
<td>91</td>
<td>47 1/4</td>
<td>36 5/8</td>
<td>29 3/4</td>
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<tr>
<td>2</td>
<td>Two 19&quot; Flat Screen Control Monitors</td>
<td>☐</td>
<td>17 1/2</td>
<td>16 5/8</td>
<td>8 1/2</td>
<td>16 1/16</td>
</tr>
<tr>
<td>3</td>
<td>Syngo Acquisition Workplace</td>
<td>☐</td>
<td>34</td>
<td>853</td>
<td>9 13/16</td>
<td>29 1/2</td>
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<tr>
<td>4</td>
<td>Container &amp; Container Table for ICS/IES (Option)</td>
<td>☐</td>
<td>69</td>
<td>47 1/4</td>
<td>36 5/8</td>
<td>29 3/4</td>
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<tr>
<td>5</td>
<td>BioGraph Horizon Gantry</td>
<td>☐</td>
<td>5,880</td>
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<td>51</td>
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<td>6</td>
<td>Patient Table</td>
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<td>1,587</td>
<td>19 1/8</td>
<td>150 1/4</td>
<td>45 5/16</td>
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<td>7</td>
<td>Power Distribution Computer Cabinet</td>
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<td>1,215</td>
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<td>Ethernet Switch for PDCC Connections</td>
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<td>9</td>
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<td>☐</td>
<td>227</td>
<td>410</td>
<td>11 3/4</td>
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<td>10</td>
<td>Pet Gantry UPS (Option)</td>
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<td>106</td>
<td>1,150</td>
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<tr>
<td>11</td>
<td>Lead Pd</td>
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<td>12</td>
<td>Rod Source</td>
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<td>-</td>
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<td>14</td>
<td>Care Vision Single Monitor (Option)</td>
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<td>95</td>
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<td>15</td>
<td>I-Control Trolley (Option)</td>
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<td>Mobile Cart</td>
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<td>16</td>
<td>Medrad Display Control Unit (Option)</td>
<td>☐</td>
<td>8</td>
<td>12 1/2</td>
<td>9</td>
<td>13 1/2</td>
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<tr>
<td>17</td>
<td>Medrad Base Unit (Option)</td>
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<td>-</td>
<td>11</td>
<td>8 3/4</td>
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<tr>
<td>18</td>
<td>Ceiling Mounted Medrad Injector (Option)</td>
<td>☐</td>
<td>106</td>
<td>-</td>
<td>-</td>
<td>Under counter on shelf</td>
</tr>
</tbody>
</table>

## Casework & Accessory Notes

1) All casework is either existing or is to be designed, detailed, furnished and installed by the customer and/or contractor. Follow design recommendations included herein, as they are essential for the successful installation & operation of the Siemens equipment.

2) All furniture (chairs, etc.) for the control room are to be provided by the customer.

## Finishing Room Height

For Gantry Only

Minimum 8'-0"

CareVision Monitor/Ceiling Mount

Minimum 9'-10"

Maximum 12'-7"

The x-ray warning light is incorporated into the front and back cover of the gantry.

In the event an overhead x-ray warning is required according to local code, consideration must be given to allow for gantry top cover removal and replacement.

## Remote System Diagnostics

Siemens Remote Services (SRS) requires a connection between the SRS Remote Server and Siemens Systems via remote local area network access, to ensure the uptime of your system. A customer VPN capable firewall or other VPN appliance is preferred.

## For More Information

For more detailed planning requirements for this system, see the typical final drawing set number: Typical #19052.
ENVIRONMENTAL REQUIREMENTS

Climate control must be provided 24 hours a day, 7 days a week. Temperature setbacks are not allowed. Please see equipment legend for site specific heat dissipation.

Scanner Room:
The scanner room should maintain between 68°F–86°F (1°F per hr.) with a relative humidity of 20%-80%. Non-condensing. Air pressure should range from 750–1060 mbar.

Control Room:
All the equipment is designed to operate in a normal office environment of 68°F–86°F (1°F per hr.) with a relative humidity of 20%-80%. Non-condensing. Air pressure should range from 750–1060 mbar.

Equipment Room:
The scanner room should maintain between 68°F–86°F (1°F per hr.) with a relative humidity of 20%-80%. Non-condensing. Air pressure should range from 750–1060 mbar.

Exterior air vents should be equipped with a filtration system of the filter class E03 to E04 to filter dust particles >10μm.

The room air should be protected against contamination by hydrogen sulfides, even in small amounts. The most common sources for hydrogen sulfides are:

- Exhaust fumes and waste water of film processors.
- Exposed sewer drainage non syphon included.
- Sewer pipe or in floor drain.
- Exhaust fumes from diesel power units emergency power, etc.

If a danger of such contamination exits, corrective actions is required e.g.,

- Extractor fans
- Syphon
- Modification of ventilation intake, etc.

MAXIMUM DISTANCES

The maximum distance between fix point means from floor cut-out to floor cut-out as well as from cable inlet to cable inlet between the system components, also call free cable length. Various arrangements of components are possible as long as the distances shown below are not exceeded and the required minimum safety distances are maintained.

Power Distribution Computer Cabinet (PDCG)

Operator’s Console

Maximum Distances/Individual Components:
1) Total cable length is made up of the length of free cable between the components and the length of cable required within/for the components.
2) Measurement data are based on the lengths of cable available between the individual components.
3) For the operator’s console, all equipment must be co-located within 6”-0” of each other.

NOISE LEVEL

<table>
<thead>
<tr>
<th>System Component</th>
<th>Decibel Level (at 3’–3” distance)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET/CT Gantry</td>
<td>&lt;68</td>
</tr>
<tr>
<td>PHS</td>
<td>&lt;67 (Moving)</td>
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<tr>
<td>Line Connection Box</td>
<td>&lt;40</td>
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<tr>
<td>Power Distribution Computer Cabinet</td>
<td>≤55</td>
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POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>SUPPLY VOLTAGE (VOLTS)</th>
<th>POWER CONSUMPTION (kW)</th>
<th>SUPPLY IMPEDANCE (pF)</th>
<th>CIRCUIT BREAKER (AMPS &quot;A&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOGRAPH HORIZON</td>
<td>480/277±10%</td>
<td>SEE BELOW</td>
<td>≤320</td>
<td>80</td>
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</tbody>
</table>

POWER CONSUMPTION

PET MAXIMUM IN OPERATION = 3.4kW  
CT MAXIMUM IN OPERATION = 70 kW  
BIOGRAPH HORIZON MAXIMUM OPERATION TOTAL FOR 4 SECONDS = ≤80 kW  
SYSTEM ON (STANDBY) = ≤10kVA  
STANDBY MODE, CT SYSTEM CAN BE OPERATED. PHS FUNCTIONS, HOWEVER NO SCAN MODE IS LOADED. PET GANTRY AND COMPUTERS ON.  

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN BIOGRAPH HORIZON OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).  

DO NOT CONNECT ANY EXTERNAL UNITS TO THE BIOGRAPH HORIZON POWER LINES.

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

RADIATION SCATTER

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</tbody>
</table>

RADIATION SAFETY

LEAD 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 CUSTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE PET PATIENT AND/OR ISOPORE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.  

IMPROPER SHIELDING MAY AFFECT CAMERA'S PERFORMANCE.

BIOGRAPH HORIZON  
HORIZONTAL LOCAL DOSE DISTRIBUTION  
MEASUREMENT IN uGy/mAs  
SCALE 1/4"=1'-0"  
SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 19.2 mm AT 130 kV THROUGH THE SYSTEM AXIS IN THE HORIZONTAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 15 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.
CUTSHEET FOR TYPICAL PAGE OF 7 SPECIFICATIONS

RADIATION SCATTER

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</table>

BIOGRAPH HORIZON

VERTICAL LOCAL DOSE DISTRIBUTION MEASUREMENT IN \( \mu \text{Gy}/\text{mAs} \)
SCALE 1/4" = 1' = 0'

SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 19.2 mm AT 130 kV THROUGH THE SYSTEM AXES IN THE VERTICAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 15 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

RADIATION AND STORAGE CONSIDERATIONS

THE CT PRODUCES RADIATION WHILE PERFORMING BIOGRAPH HORIZON SCANS. RADIATION CONCERNS FOR PET APPLIES IN THE USE OF RADIOACTIVE ISOTOPES FOR CLINICAL SCANNING OR SERVICE SCANS.

A STORAGE AREA MUST BE DESIGNATED FOR SOURCES UNTIL INSTALLATION TO LIMIT EXPOSURE.

MAGNETIC FIELD: DISTANCE BETWEEN PET/CT SYSTEM COMPONENTS, LIVE VOLTAGE CABLES AND MAGNETIC:

IN THE SCANNER ROOM STATIC MAGNETIC FIELD: B < 100 \mu T

MAGNET FIELD VARIATION: \( \Delta B_{eff} < 25 \mu T \)

TO AVOID INTERFERENCE, THE FOLLOWING MINIMUM DISTANCES MUST BE MAINTAINED:

CANTRY \( \rightarrow \) ECG-WORKSTATION
DISTANCE BETWEEN COMPONENTS MINIMUM 8'-0"
DISTANCE BETWEEN THE LINE VOLTAGE CABLES MINIMUM 9'-0"

CANTRY \( \rightarrow \) ECG-WORKSTATION
DISTANCE BETWEEN COMPONENTS MINIMUM 19'-0"
DISTANCE BETWEEN THE LINE VOLTAGE CABLES MINIMUM 9'-0"

RAM LICENSE

A VALID RAM LICENSE IS REQUIRED 4 WEEKS BEFORE SYSTEM DELIVERY.

SOURCE PROVIDERS WILL NOT SHIP THE SOURCES TO THE SITE WITHOUT A RAM LICENSE.

IT IS THE CUSTOMER'S RESPONSIBILITY TO WORK WITH THEIR RADIATION SAFETY OFFICER AND THE GOVERNMENT AGENCY TO SECURE THE RAM LICENSE.

RADIOACTIVE SOURCES

THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED AT THE TIME OF DELIVERY FOR CALIBRATION:

Ce-68 (Germanium-68) Line Sources
Quantity of Two Line Sources

Ce-68 (Germanium-68) Cylindrical Phantoms

IT IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES.

SOURCE PROVIDERS WILL NOT SHIP SOURCES TO SITE WITHOUT A VALID RAM LICENSE.
### FLOOR REQUIREMENTS

The Engineer of Record of the building shall provide support structure designed to support all weights and forces. The Engineer of Record for the building and Siemens Engineering shall jointly review deviations from the following requirements.

It is the customer's responsibility to contract a qualified specialist to implement site modifications that meet these specific limits and to design structural solutions in case of deviations.

1) The minimum allowable concrete thickness for nonseismic regions of the scanner room floor is 4.5".
2) The evenness and levelness of the floor:

   Variation of the floor levelness in the gantry and PHS areas should not exceed .5 inches over the entire footprint of the system.

   Variation is to be measured between the rear pet mounting foot and the first PHS Jack Bolt. Refer to the below:

   ![Floor Levelness Diagram]

3) The concrete properties:

   **Compressive Strengths:**
   - Recommended concrete is 28 MPa (4,000 psi). Minimum compressive strengths is 20 MPa (2,900 psi).

   **Compressive Modulus of Elasticity:**
   - Concrete shall be greater than 20684 MPa (3,000,000 psi).

   **Flexural Modulus of Elasticity:**
   - Concrete shall be greater than 20684 MPa (3,000,000 psi).

   Concrete must be cured at least 28 days prior to machine installation. Concrete flooring to be tested by a structural engineer.

4) The floor covering requirements:

   **Floor Covering:**
   - Vinyl floor covering with a minimum static load limit rating of 5.2 MPa (750.0 psi) Reference ASTM F 970 is recommended under the gantry and PHS. Soft floor covering are subject to gradual movement (creep).

   **Under Gantry:**
   - Remove all floor covering in the load bearing areas.

   Installation of the Biograph Horizon on a floating floor without sub-constructions is prohibited.

5) The anchor properties:

   **Tension Capability:**
   - Allowable tension load capability for adhesive (anchor adhesive for 1/2-13 threaded bolts is Powers AC100 Gold) embedded concrete anchors shall be greater than 1000.0 lb.

   Biograph Horizon shall be fastened to the floor and/or machine base pad with Grade 5, 1/2-13 UNC-2A threaded fasteners as supplied by Siemens.
TRANSPORT AND DELIVERY

TOTAL CT GANTRY TRANSPORT WEIGHT: 3,252 LBS.
GANTRY WITHOUT TRANSPORT DEVICE: 2,976 LBS.
TRANSPORT DEVICE: 276 LBS.

TOTAL PET GANTRY TRANSPORTING DEVICE AND STABILIZER WEIGHT: 2,800 LBS.
PET GANTRY TRANSPORT DEVICE: 432 LBS.
PET GANTRY STABILIZER: 100 LBS.

NORMAL TRANSPORT REQUIREMENTS:
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY, SEE MAXIMUM WIDTH AND MINIMUM LENGTH ABOVE FOR TRANSPORT CASTERS SWIVELED OUT.

NARROW SPACE TRANSPORT REQUIREMENTS:
WHEN TRANSPORTING THE GANTRY THROUGH A NARROW SPACE OR DOORWAY THE TRANSPORT CASTERS ARE SWIVELED IN AS SHOWN IN THIS SKETCH.

AS SOON AS THE SYSTEM PASSES THROUGH THE NARROW SPACE THE TRANSPORT CASTER MUST BE SWIVELED OUT TO AVOID TIPPING HAZARD.

POWER DISTRIBUTION COMPUTER CABINET (PDCC) TRANSPORT REQUIREMENTS:
WHEN TRANSPORTING THE PDCC CABINET THROUGH THE DOORWAY THE TRANSPORT CASTERS ARE SWIVELED IN AS SHOWN IN THIS SKETCH.

FLOOR LOAD DURING TRANSPORT FOR BOTH GANTRIES:
ACCESS FLOORS HAVE TO BE DESIGNED FOR A WEIGHT CAPACITY OF A MINIMUM OF 882 LBS. PER SLAB/PLATE. DURING TRANSPORT OF THE GANTRIES, THE LOAD MAY BE HIGHER AT CERTAIN INDIVIDUAL POINTS DUE TO EUNEVEN FLOORING. IF REQUIRED, COVER THE TRANSPORT ROUTE WITH METAL SHEETS FOR LOAD DISTRIBUTION.

LIFTING GANTRIES WITH CRANE:
IF GANTRIES NEED TO BE LIFTED CRANING BASKET MUST BE USED.