

ANNEX 15 CUSTOMER ORDERING LIST FOR DIAGNOSTIC XRAY SYSTEMS

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DEFENSE PERSONNEL SUPPORT CENTER
DIRECTORATE
MEDICAL MATERIEL



DIAGNOSTIC X-RAY SYSTEMS

CUSTOMER ORDERING LIST (COL)

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FOR DIAGNOSTIC X-RAY SYSTEMS

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CUSTOMER ORDER LIST (COL)
FOR DIAGNOSTIC X-RAY SYSTEMS

INTRODUCTION

1. PURPOSE. This COL was developed to standardize communications between customers and DPSC concerning the description of x-ray systems. The COL is used by the customer to develop a generic description of the system required.

2. INSTRUCTION FOR USE. The COL offers two sections to develop x-ray system requirements. Section I lists x-ray systems which are commonly procured by the Military Medical Services. System variations and options are specified for each type of system. Section II lists the various components which are used to create a unique or special purpose x-ray system. THIS SECTION SHOULD BE USED TO DEVELOP DESCRIPTIONS FOR X-RAY SYSTEMS WHICH CANNOT BE CATEGORIZED WITHIN SECTION I. Appendix I is the Facilities Survey Report which identifies the installation site and the describes mechanical and electrical features of this proposed site. It is required to be completed for each X-ray system requested.

3. REQUEST FOR TECHNICAL DATA PACKAGE. A customer may request a technical data package at any time by submitting a letter request with a completed copy of the COL worksheets and a Facilities Survey Report. The request must be submitted through established Service channels to DPSC-MX, P.O. Box 8419, 2800 s. 20th St., Phila, PA 19101-8419.

4. TECHNICAL DATA PACKAGE (TDP). A completed TDP includes:

a. Purchase Description. A general purchase description developed from the customer's COL.

b. Pricing of Available Systems. Approximate pricing data for each manufacturer capable of meeting the general description. Prices provided, are for budget purposes only and do not necessarily indicate low bidder or final contract price. The customer should budget an additional amount to cover the DPSC surcharge.

c. System Availability Data. The current production lead time for the x-ray system is provided so that site planning, renovation or construction can be scheduled.

d. System Component Listing by Manufacturer. A component listing by manufacturer is provided, which identifies catalog numbers and product descriptions for each COL item requested. It includes certain options and accessories which are appropriate for the system requested.

NOTE: The above TDP information is subject to change prior to your submission of a funded requisition. The contract delivery order document will identify the actual price, schedule and catalog descriptions in effect at the date of the order.

5. COMPETITION IN CONTRACTING ACT (CICA) JUSTIFICATION. The CICA mandates Full and Open Competition for the minimum need of all requirements. Minimum needs which would limit competition requires written justification and rationale to support the need. For instance, if five (5) manufacturers provide products of a given type, and the customer's "minimum need" would limit number of acceptable manufacturers to one or two, a justification will be required.

a. All sole source requirements will be solicited after DPSC approves the customer's justification of minimum essential requirements. (Add 120 days additional procurement lead time).

b. The justification for sole and limited source procurement shall contain four (4) parts:

(1) Identify the minimum unique needs in terms of mission or performance and efforts made to eliminate restrictions for this and future requirements.

(2) Explanation of how or why the sole source is required to fulfill the minimum needs of the Government.

(3) The impact if the unique need is not filled (i.e put in terms of monetary/patient care/mission requirements).

(4) Certification Statement: "I certify that the essential characteristics and rationale provided supports the Government's minimum essential requirements and that the statements contained herein, for other than full and open competition, are accurate and complete".

c. CICA justifications should be signed by a medical officer and/or appropriate authority. All signatures must be dated.

d. Supplemental areas of concern to be considered as part of the overall justification may include:

(1) Non-availability of qualified personnel to provide installation and warranty maintenance.

(2) Urgency of need for mission requirements.

(3) Non-availability of repair parts in a timely manner.

(4) Non-compatibility (per 21CFR Subchapter J) between manufacturer's equipment and on-hand equipment, with which it will be interconnected or interfaced. (Provided the new equipment dollar value is less than 20% of the original equipment cost of the on hand equipment and 50% or more of its useful Life Expectancy Remains).

(5) Additional functions or an upgrade to existing equipment where only one type of product or device will satisfy the requirement.

NOTE: In no case are the above elements individually, sufficient to justify a sole source acquisition.

6. PROCEDURES FOR REQUISITIONING X-RAY SYSTEMS.

a. Requisitions for x-ray systems must be submitted on department of Defense Forms (i.e. DD1348-6, DD1149, DD448) and must include appropriation accounting and MILSTRIP datalines.

NOTE: BILLING ON X-RAY REQUISITION WILL INCLUDE A SURCHARGE AMOUNT THAT DOES NOT APPEAR ON THE EQUIPMENT CONTRACT.

b. Requisitions will be submitted through established service channels to DPSC-MX. The requisition should be submitted with sufficient lead time to allow for timely delivery. Note that the lead time for routine delivery of x-ray equipment is 180 days after receipt of requisition at DPSC-MX.

(1) Special procedure, vascular, cardiac, and digital systems will require an additional 60-120 days.

(2) Sole source requirements and trade in of equipment will require an additional 120 days.

(3) Any requisition submitted with other than a routine priority (12 or 13) will require certification by facility engineering, of the site preparation completion date. Delay of delivery will not be authorized on these requirements. The system will be shipped and it will be the receiving activity's responsibility to provide climate controlled storage.

(4) Requisitions submitted without certified site preparation completion date will be processed on routine priority.

(5) When military transportation is requested the following transportation priorities will be used:

Requisition Priority	Transportation Priority
1 thru 3	* TP1 (Air)
4 thru 6	* TP2 (Air/surface)
7 and higher	TP3 (Surface)

*The receiving activity must provide a justification and obtain approval from the air transportation manager for all air shipments.

c. The submission should also include:

(1) A general purchase description as provided from the TDP, identified by the RX project number. An annotated copy of the TDP may be used to identify changes.

(2) Furnish the name of manufacturer, model or catalog designation, serial number, date item was placed in service, date of manufacture (if known), and HEW certification status (certified or uncertified) for each component of on-hand equipment which will be interconnected with the product or devices being requested.

(3) The address and phone number of the activity which will perform the acceptance inspection.

(4) Names and phone numbers of the supply officer, biomedical equipment maintenance technician, and radiologist most familiar with the project.

(5) CICA justification, when applicable, and if a foreign made item is required, the following determination must be made in addition to the CICA justification.

(a) Similar item is not manufactured in the U.S.

(b) Justification not to forgo procurement of this requirement.

(c) Justification why domestic substitute is unacceptable.

7. FACILITY SURVEY. If installation is required in a permanently fixed area, a facilities survey report* (SEE APPENDIX I) which includes a drawing of the proposed room, shows placement of the equipment, shall be provided in conjunction with the x-ray system planning. We request that a copy of such documentation be submitted with your request for a TDP. This information will enable DPSC to provide comment concerning modifications which might be avoided or minimized by selection of alternate equipment. For assistance in planning the timely installation of the new equipment, we encourage you to enlist the aid of your Facility or Civil Engineering Office in completing this survey.

*a. (Army: Procurement Acquisition Survey (PAS)).

b. (Navy: Site Readiness Inspection).

c. (Air Force: Pre-Procurement Technical Survey).

COL WORKSHEET

SECTION I. COMMON X-RAY SYSTEMS

INSTRUCTION FOR USE. Check the system which meets your requirements. System variations and options are listed by types of systems. Check those variations and options which apply to you requirement. If your requirement is not listed in this section, refer to Section II.

_____ 01. MOBILE, RADIOGRAPHIC, BATTERY-POWERED X-RAY APPARATUS, 300MAS. Generator is capable of 100mA @ 110KVP, motorized mobile base, tube support, tube head assembly, and collimator. (Circle required power) 120 or 230 volts, 50 or 60 Hz

- _____ D. (Automatic Exposure Control) (AEC)
- _____ E. (Anatomical Programming) (APR)
- _____ S. (Advanced Service Package), (Diagnostic Software and Hardware for maintenance).

_____ 02A. LINE POWERED MOBILE, RADIOGRAPHIC. Generator 30mA at 60kVp, 20mA at 100kVp with selectable kVp 60-100 in 10 kVp steps. Includes mobile stand, tube support and control. (120 or 230 volts, 50 or 60 Hz (circle required power)).

- _____ 1. 40 mA system
- _____ 1B. 40 mA system for shipboard use.
- _____ 2. 50 mA system
- _____ 3. 60 mA system
- _____ 4. 240 Volt conversion kit
- _____ 5. Automatic exposure control with Adult size detector (AEC)
- _____ 6. Reusable shipping containers (Hardigg Case)

_____ 02B. LINE POWER MOBILE RADIOGRAPHIC, Generator capable of 400mA @ 125kVp (20kW) 120 or 230 volts, 20 Ampere, AC, 50 or 60 Hz, mobile base with deadman type brake, and storage for cassettes. Includes control, transformer, x-ray tube support, high tension cables, power cable, and adjustable collimator.

- _____ 1. Automatic exposure control (AEC)
- _____ 2. Anatomical Programming (APR)
- _____ S. Advance Service Package

03. LIGHT DUTY RADIOGRAPHIC SYSTEMS: Suitable for small Medical Activities. Check desired system (See pg. 7 for system variations and options).

_____ 03A. SYSTEM 36/55/66C/101 (Shipboard)

Consists of the following major components:

37. GENERATOR - 600mA, capable of 300mA @ 125kVp, single phase, vertical upright style.

55. RADIOGRAPHIC TUBE SUPPORT - Table supported, with mechanical locks and tie downs for shipboard use.

66. TABLE - Non-tilt horizontal table with integrated tubestand, floating top, super speed bucky with grid.

101. VERTICAL (CHEST) FILM SYSTEM - Vertical multi-size cassette holder, wall mounted, with mechanical locks and grid.

201. RADIOGRAPHIC TUBE - 1.0 -2.0mm, standard speed.

_____ Marine dry type transformer, deck mounted, 440 volt, three phase primary/220 volt single phase secondary. (Specify if required)

_____ 03B SYSTEM 32/55/66

Consists of the following major components:

32. GENERATOR - 300mA, capable of 300mA @ 125kVp, single phase, vertical upright style.

55. RADIOGRAPHIC TUBE SUPPORT - Table supported.

66. TABLE - Non-tilt horizontal table with integrated tubestand, floating top, super speed bucky with grid.

Check table top length for restricted room (1) 53 in. _____
(2) 60 in. _____, (3) 72 in. _____ (4) 91 in. _____.

201. RADIOGRAPHIC TUBE - Dual focal spots, standard speed.

03 SYSTEM VARIATIONS AND OPTIONS AVAILABLE: Check those variations and options desired.

VARIATIONS

_____ A. Automatic Exposure Control.

OPTIONS

- _____ H1. Hand Grips (pair)
- _____ H2. Compression Band
- _____ H3. Extension Cone (Telescoping)
- _____ H5. Head clamp
- _____ H11. Lateral Cassette Holder
- _____ 101. Multisized Cassette Holder (Specify left or right hand loading)
- _____ 104. Vertical Bucky Stand (Specify left or right hand loading)
 - _____ A. Tilt _____ B. Non-Tilting
- _____ 107. Grid for Cassette Holder/Bucky Stand (Specify below)
 - _____ Ratio (8:1 or 12:1)
 - _____ Lines (80 or 103)
 - _____ to _____ Focal Distance (36" to 48" or 60" to 72")
- _____ 204. Contractor Installation Required
- _____ 206. Contractor Installation not Required

04. MEDIUM DUTY RADIOGRAPHIC SYSTEMS: Suitable for larger clinics and for general radiography in hospitals. Check desired system (See page 9 for system variations and options).

----- 04A SYSTEM 55/66

Consists of the following major components:

55. RADIOGRAPHIC TUBE SUPPORT - Table supported.

66. TABLE - Non-tilt horizontal table with integrated tubestand, floating top, super speed bucky with grid.

201. RADIOGRAPHIC TUBE - Dual focal spots, standard speed.

----- 04B SYSTEM 51/62

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling supported.

62. TABLE - 90°/15° tilt table with 4 way top super speed bucky with grid.

201. RADIOGRAPHIC TUBE - Dual focal spots, standard speed.

----- 04C SYSTEM 51/61

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling supported.

61. TABLE - Non-Tilt Horizontal table with floating top, super speed bucky with grid.

201. RADIOGRAPHIC TUBE - Dual focal spots, standard speed.

04. SYSTEM VARIATIONS AND OPTIONS AVAILABLE: Check variations and options desired.

VARIATIONS

Generator

- _____ 1. 300mA Capable of 300mA at 125kVp, Single phase
- _____ 2. 300mA Capable of 300mA at 150kVp, Single phase
- _____ 3. 500mA Capable of 300mA at 150kVp, Single phase
- _____ 4. 600mA Capable of 400mA at 150kVp, Single phase
- _____ 5. 600mA Capable of 300mA at 125kVp, Single phase
- _____ 6. 500mA Capable of 200mA at 125kVp, 30kW HF, Single phase
- _____ 7. 600mA Capable of 400mA at 150kVp, 60kW, Three phase, 12 pulse
- _____ 8. 1000mA Capable of 500mA at 150kVp, 80kW, Three phase, 12 pulse
- _____ 9. 500mA Capable of 250mA at 150kVp, 40kW HF, Three phase
- _____ 10. 500mA Capable of 400mA at 125kVp, 50kW HF, Three phase
- _____ 11. 500mA Capable of 300mA at 150kVp, 50kW HF, Three phase
- _____ 12. 1000mA Capable of 500mA at 150kVp, 80kW HF, Three phase
- _____ A. Automatic Exposure Control
- _____ B. Linear Tomographic Attachment
- _____ C. Anatomical Programming

OPTIONS:

- _____ H1. Hand Grips (pair)
- _____ H2. Compression Device
- _____ H3. Extension Cone (Telescoping)
- _____ H4. Shoulder Support
- _____ H5. Head clamp
- _____ H6. Footrest
- _____ H11. Lateral Cassette Holder
- _____ 101. Multisized Cassette Holder (Specify left or right hand loading)
- _____ 104. Vertical Bucky Stand (Specify left or right hand loading)
 - _____ A. Tilt _____ B. Non-Tilting
- _____ 107. Grid for Cassette Holder/Bucky Stand (Specify below)
 - _____ Ratio (8:1 or 12:1)
 - _____ Lines (80 or 103)
 - _____ to _____ Focal Distance (36" to 48" or 60" to 72")
- _____ 204. Contractor Installation Required
- _____ 206. Contractor Installation not Required

05 UROLOGICAL SYSTEMS:

05A system 55/64

55. RADIOGRAPHIC TUBE SUPPORT - Table Supported

66. X-RAY TABLE - 90/15° tilt urological table with controls, table top pad, leg extension, footboard, knee crutches, head wedge, shoulder support, floating top, drain bag assembly and 40 bags

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Dual focal spot with fan and high voltage cables

05B SYSTEM 55/64/143

05A. SYSTEM WITH FLUOROSCOPIC CAPABILITIES.

143. X-RAY INTENSIFIER - 9 in. Multifield with vidicon TV 525/625 line, includes monitor and cart

05 SYSTEM VARIATIONS AND OPTIONS AVAILABLE: Check variations and options desired.

GENERATOR

- 1. 500mA Capable of 300mA at 150kVp, Single phase
- 2. 600mA Capable of 400mA at 150kVp, Single phase
- 3. 600mA Capable of 300mA at 125kVp, Single phase
- 4. 300mA Capable of 200mA at 125kVp, 18kW HF, Single phase
- 5. 500mA Capable of 200mA at 125kVp, 30kW HF, Single phase
- 6. 600mA Capable of 400mA at 150kVp, 60kW, Three phase, 12 pulse
- 7. 1000mA Capable of 500mA at 150kVp, 80kW, Three phase, 12 pulse
- 8. 500mA Capable of 250mA at 150kVp, 40kW HF, Three phase
- 9. 500mA Capable of 400mA at 125kVp, 50kW HF, Three phase
- 10. 1000mA Capable of 500mA at 150kVp, 80kW HF, Three phase

OPTIONS:

- A. Tower to patient's left
- B. Tower to patient's right
- C. Automatic exposure control
- D. Tomographic attachment
- E. Anatomical programming
- F. 100mm Cut film camera 2 FPS

06 MEDIUM DUTY RADIOGRAPHIC/FLUOROSCOPIC SYSTEMS:

Suitable for large clinics and hospitals. Check desired system.
(See page 12 & 13 for system variations and options).

06A SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63A. TABLE - 90/15° tilt table with power longitudinal (four-way) movement top, super speed bucky with grid and AEC detector, 9.5 x 9.5 spot film device with grid.

143. IMAGE SYSTEM - 6 in. single field I.I. with TV Viewing 525/625 line.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Dual focal spot standard speed.
FLUOROSCOPIC TUBE - fractional focal spot standard speed.

06B SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63B. TABLE - 90/30° tilt table with power longitudinal (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 spot film device with grid.

143. IMAGE SYSTEM - 6 in. single field I.I. with TV Viewing 525/625 line scan.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Fractional focal spot, high speed.
FLUOROSCOPIC TUBE - fractional focal spot, high speed.

06C SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63C. TABLE - 90/45° tilt table with power longitudinal (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 spot film device with grid.

143. IMAGE SYSTEM - 9 in. Multi field I.I. with TV Viewing 525/625 line.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Dual focal spot standard speed.
FLUOROSCOPIC TUBE - fractional focal spot standard speed.

06D SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63C. TABLE - 90/45° tilt table with power longitudinal (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 spot film device with grid.

143. IMAGE SYSTEM - 12 in. Multi field I.I. with TV Viewing 525/625 line.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Fractional focal spot, high speed.
FLUOROSCOPIC TUBE - Fractional focal spot, high speed.

06. SYSTEM VARIATIONS AND OPTIONS AVAILABLE: Check variations and options desired.

GENERATOR

- _____ 1. 300mA Capable of 300mA at 150kVp, Single phase
- _____ 2. 500mA Capable of 300mA at 150kVp, Single phase
- _____ 3. 600mA Capable of 400mA at 150kVp, Single phase
- _____ 4. 600mA Capable of 300mA at 125kVp, 30kW HF, Single phase
- _____ 5. 500mA Capable of 200mA at 125kVp, 30kW HF, Single phase
- _____ 6. 600mA Capable of 400mA at 150kVp, 30kW, Three phase, 12 pulse
- _____ 7. 1000mA Capable of 500mA at 150kVp, 80kW, Three phase, 12 pulse
- _____ 8. 500mA Capable of 250mA at 150kVp, 40kW HF, Three phase
- _____ 9. 500mA Capable of 400mA at 125kVp, 50kW HF, Three phase
- _____ 10. 500mA Capable of 300mA at 150kVp, 50kW HF, Three phase
- _____ 11. 1000mA Capable of 500mA at 150kVp, 80kW HF, Three phase

OPTIONS:

- _____ A. Tomographic attachment
- _____ B. Anatomical programming
- _____ C. 105mm spot film camera 6 FPS Rollfilm
- _____ D. 100mm spot film camera 6 FPS cutfilm

OPTIONS: (CONT'D)

- _____ H1. Hand Grips (pair)
- _____ H2. Compression Device
- _____ H3. Extension Cone (Telescoping)
- _____ H4. Shoulder Support
- _____ H5. Head clamp
- _____ H6. Footrest
- _____ H7. Patient step
- _____ H11. Lateral Cassette Holder
- _____ H12. Wall Accessory Rack
- _____ 101. Multisized Cassette Holder (Specify left or right hand loading)
- _____ 104. Vertical Bucky Stand (Specify left or right hand loading)
_____ A. Tilt _____ B. Non-Tilting
- _____ 107. Grid for Cassette Holder/Bucky Stand (Specify below)
_____ Ratio (8:1 or 12:1)
_____ Lines (80 or 103)
_____ to _____ Focal Distance (36" to 48" or 60" to 72")
- _____ 204. Contractor Installation Required
- _____ 206. Contractor Installation not Required

07 HEAVY DUTY RADIOGRAPHIC/FLUOROSCOPIC SYSTEMS:

Suitable for hospitals and medical centers. Check desired system.
(See page 15 & 16 for system variations and options).

07A SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63D. TABLE - 90/90° tilt table with power (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 front load spot film device with grid.

143. IMAGE - 9 in. multi field I.I. with TV Viewing 525/625 line scan.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - fractional focal spots, high speed, 300,000 heat units.

07B SYSTEM 51/63/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63d. TABLE - 90/90° tilt table with power (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 front load spot film device with grid.

143. IMAGE SYSTEM - 12 in. multi field I.I. with TV Viewing 525/625 line scan.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Fractional focal spot high speed. 300,000 heat units.

07C SYSTEM 51/62/143

Consists of the following major components:

51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported

63D. TABLE - 90/90° tilt table with power (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 front and rear loading, spot film device with grid.

143. IMAGE - 9 in. multi field I.I. with TV Viewing 525/625 line scan.

201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - fractional focal spots, high speed, 300,000 heat units.

07D SYSTEM 51/63/143

Consists of the following major components:

- 51. RADIOGRAPHIC TUBE SUPPORT - Ceiling Supported
- 63D. TABLE - 90/90° tilt table with power (four-way) movement top, super speed bucky with grid and AEC detector, 14 x 14 front and rear loading, spot film device with grid.
- 143. IMAGE SYSTEM - 12 in. multi field I.I. with TV Viewing 525/625 line scan.
- 201. RADIOGRAPHIC/FLUOROSCOPIC TUBE - Fractional focal spot high speed. 300,000 heat units.
- 07. SYSTEM VARIATIONS AND OPTIONS AVAILABLE: Check variations and options desired.

VARIATIONS

GENERATOR

- _____ 1. 600mA Capable of 400mA at 150kVp, 60kW, Three phase, 12 pulse
- _____ 2. 1000mA Capable of 500mA at 150kVp, 80kW, Three phase, 12 pulse
- _____ 3. 1000mA Capable of 600mA at 150kVp, 100kW, Three phase
- _____ 4. 500mA Capable of 400mA at 125kVp, 50kW HF, Three phase
- _____ 5. 500mA Capable of 300mA at 150kVp, 50kW HF, Three phase
- _____ 6. 1000mA Capable of 500mA at 150kVp, 80kW HF, Three phase
- _____ 7. 1000mA Capable of 600mA at 150kVp, 100kW HF, Three phase

OPTIONS:

- _____ A. Tomographic attachment
- _____ B. Anatomical programming
- _____ C. 105mm SFC 6 FPS Rollfilm
- _____ D. 100mm SFC 6 FPS cutfilm

OPTIONS:

- _____ H1. Hand Grips (pair)
- _____ H2. Compression Device
- _____ H3. Extension Cone (Telescoping)
- _____ H4. Shoulder Support
- _____ H5. Head clamp
- _____ H7. Patient step
- _____ H8. Myelographic Support
- _____ H11. Lateral Cassette Holder
- _____ H12. Wall Accessory Rack
- _____ 101. Multisized Cassette Holder (Specify left or right hand loading)
- _____ 104. Vertical Bucky Stand (Specify left or right hand loading)
_____ A. Tilt _____ B. Non-Tilting
- _____ 107. Grid for Cassette Holder/Bucky Stand (Specify below)
_____ Ratio (8:1 or 12:1)
_____ Lines (80 or 103)
_____ to _____ Focal Distance (36" to 48" or 60" to 72")
- _____ 204. Contractor Installation Required
- _____ 206. Contractor Installation not Required

08 VASCULAR SPECIAL PROCEDURES. Radiographic/Fluoroscopic

_____ 08A SYSTEM 50/51S/67 Consists of the following major components:

43. GENERATOR - 1000mA, 150kVp, Three phase includes kv reduction, Automatic Exposure Control (AEC), forced extinction and anode heat calculator.

51S. TUBE SUPPORT - Ceiling or floor supported L/U or C Arm.

67. TABLE - Stationary base with elevating stepping top.

143. IMAGE - 12 in. multi field 1024 line Tv Viewing with spot film camera and Puck film changer.

201. X-RAY TUBE - Fractional focal spots, high speed rotor, 400,000 heat units.

OPTIONS

- _____ Biplane Film changer operation
- _____ PA plane Digital System 6FPS in 512 Matrix
- _____ Video Tape Recorder

09 CARDIAC CATHETERIZATION SYSTEM.

_____ 09A. Biplane cine system for cardiac studies.

- _____ A1. Plane Digital, 30FPS in 512 matrix
- _____ A2. Biplane digital, 15 FPS per plane in 512 matrix.

15 MAMMOGRAPHIC SYSTEM:

Shall include: Control, High Tension Unit, Automatic Exposure Control (AEC) and Image Receptor, ± 90 degree Rotation of Tube Support, Collimator with Light, 24 x 30cm removable bucky with adaption for 18 x 24cm cassettes, 1.5x magnification attachment, Retromammary Compression Device, Compression Pad for Needle Biopsy Localization.

_____ 15A. Three phase six pulse, 480 volts

- _____ 1. For Xero radiographic
- _____ 2. For Film Screen

_____ 15B. Single Phase

High Frequency, generator for Film Screen Procedures, Beryllium Window and Molybdenum Anode. Nominal focal spots sizes 0.1 mm and 0.3 mm.

- _____ 1. Fixed System
- _____ 2. Mobile System
 - _____ a. 120 volts, 15AMPS
 - _____ b. 230 volts

OPTIONS

- _____ a. Removable 18 x 24cm bucky and compression Device
- _____ b. Xerox Cassette Holder
- _____ c. Additional Compression devices/cones
- _____ d. Patient Chair
- _____ e. Pneumatic Compression

_____ 25 MOBILE "C" ARM: Mobile Fluoroscopic C-Arm with 6" image intensifier and TV System with 2 monitors.

- _____ a. 120 Volts Fluoroscopic
- _____ b. 230 Volts Rad/Fluoro
- _____ c. Disc Recorder
 - _____ 25 images
 - _____ 50 images
- _____ d. Hard copy Camera, Format _____ 1 on 1, _____ 2 on 1, _____ 4 on 1.
- _____ e. Specify image intensifier size(s)
 - _____ inch (i.e. 9, 7, 4 single or dual field) cica justification required
- _____ f. Specify essential characteristics for other requirements.

COL WORKSHEETS

SECTION II. SPECIAL SYSTEMS

INSTRUCTION FOR USE. Check those components which are required in the x-ray system.

REQUIRED CAPABILITIES

- _____ 11. Routine radiography (table and chests)
- _____ 12. Routine radiography (table only)
- _____ 13. Chest radiography only (See item 57, 103, 107)
- _____ 14. Fluoroscopy
- _____ 15. Mammography (See System 15)
- _____ 17. Single-plane angiography
- _____ 18. Bi-plane angiography
- _____ 19. Neuroradiography
- _____ 20. Cardiac catheterization laboratory
- _____ 21. Linear tomography (body sections)
- _____ 22. Complex (multi-directional) tomography
- _____ 23. Urological system (See system 05)
- _____ 24. Mobile radiography (See 01 & 02) Systems)
- _____ 25. Mobile fluoroscopy (See System 25)
- _____ 27. Other - (Provide Essential Characteristics)
- _____ 30. Head stand, motor driven

GENERATOR CAPACITY: Specify 50/60 Hz _____

	<u>mA</u>	<u>MAX KVP</u>	<u>MA @ MAX KVP</u>	<u>REMARKS</u>
_____ 31.				Specify mA, kVp and power
_____ 32.	300	125	300	Single phase
_____ 33.	300	150	300	Single phase
_____ 34.	500	150	300	Single phase
_____ 35.	600	150	400	Single phase
_____ 36.	600	125	300	Single phase
_____ 37.	600	150	300	Single phase
_____ 38.	300	125	18KW HF	Single phase
_____ 39.	500	125	30KW HF	Single phase

_____	40.	600	150	400	Three phase, twelve pulse
_____	41.	1000	150	500, 80kW	Three phase, twelve pulse
_____	42.	1000	150	600, 100kW	Three phase, twelve pulse
_____	43.	1200	150	600, 100kW	Three phase, twelve pulse
_____	44.	1200	150	800, 120kW	Three phase, twelve pulse
_____	45.	500	150	40kW	Three phase, high frequency (HF)
_____	46.	500	125	50kW	Three phase, high frequency (HF)
_____	47.	500	150	50kW	Three phase, high frequency (HF)
_____	48.	1000	150	80kW	Three phase, high frequency (HF)
_____	49.	1000	150	100kW	Three phase, high frequency (HF)

GENERAL OPTIONS:

- _____ f. Anode heat calculator
- _____ h. Falling load
- _____ i. Constant load
- _____ j. Anatomical Programmed Radiography
- _____ g. Automatic Exposure Control & Forced Extinction

RADIOGRAPHIC TUBE SUPPORT (Specify minimum ceiling height, _____)

NOTE - if not provided, COL will be rejected)

- _____ 51. Ceiling supported
- _____ 52. Floor to ceiling
- _____ 53. Floor to wall
- _____ 55. Table supported
- _____ 57. Floor supported (free standing).
- _____ 58. Other - Specify

STANDARD TABLES (Specify minimum room dimensions, _____)

NOTE - if not provided, COL will be rejected)

- _____ 61. Horizontal (nontilt) _____ Variable height
- _____ 62. 90°/15° tilt Rad
- _____ 63. Tilt R/F
 - _____ A. 90/15°
 - _____ B. 90/30°
 - _____ C. 90/45°
 - _____ D. 90/90°
- _____ 64. Urology _____ Tower to patient left, _____ Tower to patient right
- _____ 65. Dedicated Linear Tomography (non-tilt)
- _____ 66. Non-tilt horizontal table with integrated tubestand
- _____ 67. Vascular Table (Specify model number and essential features)
- _____ 68. Other - Specify

REMOTE TABLES

- _____ 72. Radiographic/multi-directional tomographic
- _____ 73. Radiographic/Fluoroscopic/linear tomographic
- _____ 74. Other - Specify

TABLE TOP

- _____ 82. Longitudinal (two-way) power movement
- _____ 83. Longitudinal (power) and lateral (power or manual) (4-way) movement
- _____ 84. Floating top (4-way)
- _____ 85. Cardiovascular cradle
- _____ 86. Stepper top drive
- _____ 87. Other - Specify
- _____ 88. Carbon fiber

TABLE ACCESSORIES AND OPTIONS

- _____ 90. Front and rear loading spot film device
- _____ 91. Front-loading spot film device
- _____ 92. Rear-loading spot film device
- _____ 93. Spotfilm Device (SFD) cassette size, Inches or Metric equivalent
 - _____ 9.5 x 9.5
 - _____ 14 x 14 (90/30 to 90/90 only)
 - SFD Formats
 - _____ A. 1 on 1
 - 2 on 1 longitudinal and transverse
 - 4 on 1
 - _____ B. 1 on 1
 - 2 on 1 longitudinal and transverse
 - 4 on 1
 - _____ C. 6/9 on 1 (90/30 or 90/90 only)
- _____ 94. Automatic Exposure Control Detector for table bucky
- _____ 95. Auto film transport (cassette-less bucky radiography)
- _____ 96. Automatic Exposure Control for spot film device
- _____ 97. Grids (Specify below)
 - _____ Ratio (8:1 or 12:1)
 - _____ Lines (80 or 103)
- _____ 98. Standard Accessories
 - _____ Hand Grips
 - _____ Wall Accessory Rack
 - _____ Shoulder Support
 - _____ Extension Cone
 - _____ Footrest
 - _____ Lateral Cassette Holder
 - _____ Compression Device
 - _____ Myelo Support
 - _____ Head Clamp
 - _____ Tomographic Attachment

VERTICAL (CHEST) FILM SYSTEM

- 101. Multisized Cassette holder (____right ____ left hand loading)
- 103. Cassette-less film handling (dedicated chest)
- 104. Vertical bucky stand (____right ____left hand loading) ____ tilting
____ non tilting (Multisized cassette capable)
- 106. Automatic Exposure Control
- 107. Dedicated Chest system for direct film feeding to film
processor (specify processor)
- 108. Grid (Specify below)
____ Ratio (8:1 or 12:1)
____ Lines (80 or 103)
____ " to ____" Focal Distance (36" to 48" or 60" to 72")
- 109. Other - Specify

IMAGE INTENSIFIER SUSPENSION

- 111. Overhead suspension
- 112. Table supported
- 113. Other - Specify

IMAGE INTENSIFIER, FIELD SIZE

- 121. 9" Single field
- 122. 6" single field
- 123. 9" multi-field
- 124. Large field of view (FFOV), multifield (12 inch or greater)
- 125. Other - Specify

IMAGE SYSTEM VIEWING AND RECORDING REQUIREMENTS

- 141. ____Single ____Dual mirror viewing
- 143. TV viewing (cannot be selected with mirror viewing)
- 144. 35mm cine
- 145. 105mm spot film camera (Rollfilm)
- 146. Other - Specify
- 147. 100mm spotfilm camera (Cut (sheet) film)

TV VIEWING OPTIONS

- _____ 151. Vidicon camera
- _____ 152. Monitor(s) - Specify quantity _____ and size _____.
- _____ 154. 525/625 line-scan
- _____ 155. 1025/1125 line-scan
- _____ 156. Monitor mobile cart - Specify quantity _____
- _____ 157. Monitor ceiling mount-fixed- Specify quantity _____
- _____ 158. Other - Specify _____
- _____ 161. Plubicon camera
- _____ 164. Monitor wall mount - Specify quantity _____
- _____ 165. Monitor ceiling mount movable - Specify quantity _____

TV RECORDERS

- _____ 171. Video tape recorder with mobile cart
 - 1"
 - 1/2"
 - Cassette cartridge
 - Other - Specify _____
- _____ 172. Disc recorder with mobile cart

ANGIOGRAPHIC FILM CHANGERS

- _____ 183. 14 x 14 inch or metric equivalent
- _____ 184. Injector (specify model) _____
- _____ 186. Schonander (AOT)
- _____ 189. PUCK
- _____ 190. Other - Specify _____

DIGITAL IMAGING EQUIPMENT

- _____ 191. Digital vascular system, computer enhanced (primarily U/C Arm)
- _____ 192. Fluoroscopy, Video Signal Enhancement (noise/dose reduction)
- _____ 193. Other - Specify _____

X-RAY TUBES

201. If you do not specify special x-ray tube requirements, the contracting activity will propose tubes which are considered to be compatible with the other components selected. If you prefer, include special requirements (focal spot, anode angle, heat storage capacity) in system descriptions forwarded with requests for TDP's.

EQUIPMENT ON-HAND

202. You must identify by name, model #, date placed in service, and serial number of all components to be interfaced with the proposed equipment. Indicate whether on-hand components are certified or uncertified.

CICA JUSTIFICATION

203. If you know in advance of potentials restrictive requirements for the system described, indicate your concerns in the system description forwarded with requests for TDP.

INSTALLATION

204. Contractor Installation required.

206. Contractor Installation not required.

THE FOLLOWING OPTIONS HAVE LIMITED AVAILABILITY:

208. EXTENDED WARRANTY" _____ years (specify Max 4). Glassware warranty remains prorated for x-ray tubes, TV camera pick-up tubes and image intensifier tubes. (Cost estimate for planning purposes is 10% of the equipment cost per year).

210 EXTENDED INSTALLATION: Requires the manufacturer to interface their equipment to the existing room and utilities. The guidelines are as follows:

a. A request for extended installation will be evaluated when the purchase request is received at DPSC-MX.

1. All requests for sites that incorporate the DOD/VA Universal x-ray room will be honored.

2. For non-universal rooms, acceptance priority is as follows:

a. Cardiac Catheterization systems

b. Special Procedure systems

c. Radiographic/Fluoroscopic systems (limited)

d. Radiographic systems (not accepted)

b. Replacement system description must be similar to the existing system. (80kw R/F replacing an 80kw R/F) Shall be competitive, no sole or limited sources justifications are acceptable.

c. Cost must not exceed 10% of the equipment cost nor \$90,000.00 which ever is less.

d. Provide the following information with your purchase request:

1. Point of contact with both commercial and autovon telephone numbers.

2. Five (5) sets of Single line room drawings that show existing utilities and equipment layout and proposed layout.

3. Preliminary work statement of what is required.

e. Extended installation is limited to support and utilities for the new system. Cosmetic work such as replacing floor or ceiling tile new lighting and painting will NOT be included.

f. The procurement lead time for extended installation requirements is 120 days with an additional 120 days for delivery.

215 TRADE-IN OF EQUIPMENT. In connection with a procurement involving exchange (trade-in) the purchase request must be accompanied by a certification that the property is eligible for exchange and complies with all conditions and limitations specified in DODI 4140.51 including a written administrative determination of economic advantage which shall indicate:

a. Certification

- (1) The anticipated economic advantage to the Government resulting from the use of the exchange authority. (Current equipment trade-in value).
- (2) The exchange allowances shall be applied toward or in partial payment for the items to be acquired.
- (3) That the exchange property has been rendered safe, innocuous, or has been demilitarized.

b. The following additional information is required:

- (1) Location of the equipment to be traded. (Building and room no.)
- (2) Original purchase price.
- (3) Date purchased and date placed in service.
- (4) Point of contact at activity who will coordinate inspection of the trade-in equipment, Name, Telephone Number, commercial and autovon.

c. Trade-in shall be used only with competitive procurement and award will be made to the overall low offeror.

d. The procurement lead time for trade-in requirements is 120 days with an additional 120 days lead time for delivery.

APPENDIX I

FACILITIES SURVEY REPORT FOR INSTALLATION OF X-RAY SYSTEMS

I. Army and Air Force activities need only fill out those sections which are not included in their pre-procurement technical survey. (Copy of the pre-procurement technical survey shall be included with the request for a TDP).

II. UTILITIES. Evaluation of utilities available at the proposed installation site. Identify the following characteristics:

	<u>AVAILABLE</u>	<u>PROPOSED</u>
a. Voltage	_____	_____
b. (50/60) Hertz	_____	_____
c. Kilowatt capacity	_____	_____
d. Phase (1 or 3)	_____	_____
e. Percent line regulation (max. KVA demand)	_____	_____
f. Number of elect. wires	_____	_____
g. Elect. service wire size (1) power lines (gauge)	_____	_____
(2) ground/neutral (gauge)	_____	_____
h. Rating of circuit breaker feeling the x-ray system	_____	_____
i. Compressed air (PSI)	_____	_____
j. List of other equipment fed by power cited. _____		

III. ROOM LIGHTING. Current location and amount of lighting has/has not been reviewed and is/is not considered adequate for the system to be installed (If a negative response is indicated above include estimated date for correction or completion).

IV. ROOM SIZE & LAYOUT. Attach a diagram of the proposed installation site (INCLUDING DIMENSION, LENGTH, WIDTH, HEIGHT) and locations of systems components, room description complete with location of electrical outlets (with rating) and door opening directions. (ROOM DIMENSIONS MUST INCLUDE CEILING HEIGHT). In addition to the diagram, provide the following details:

a. Provide the following information:

Building name and number _____
Department room number _____ (e.g. Rad1, or 3, Uro 2, ect)
Facility room number _____ (224, I6IH etc)
Activity mailing address _____
Activity freight address _____

b. Load bearing capability (lbs/sq. ft.) and material/type of construction:

1. Floor _____ Construction _____
2. Ceiling _____ Construction _____
3. Walls _____ Construction _____

c. Date of last radiation safety survey on site _____.

d. Height and thickness of shielding on walls, floor, and ceiling (as applicable) and the material:

1. Floor _____ Material _____
2. Ceiling _____ Material _____
3. Walls _____ Material _____

e. Room modifications planned. List either the date of estimated completion (if modification has begun) or the lead time for modification once approval to proceed has been received:

<u>MODIFICATION PLANNED</u>	<u>COMPLETION DATE/LEAD TIME</u>
-----------------------------	----------------------------------

f. Minimum height, width, load bearing capabilities at any point along access routes through which the equipment will pass on the way to the installation site: _____.

g. Date facility survey was completed _____.

h. Attach a detailed list of equipment with which the new equipment must be compatible.

i. Name, address and phone number of the person compiling this report.

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X-ray System Procurements.

TO:

1. References:

- a. Requisition Number:
- b. Contract Number:

2. Enclosed is information regarding the "Customer and Contractor Responsibilities for Diagnostic X-Ray System Procurements", and a copy of the "Contract Delivery Order". The customer and contractor responsibilities document contains important information and instructions concerning your and the contractor's responsibilities for a successful installation and acceptance of subject x-ray system. Please read this document carefully; distribute copies to _____ to Radiology, Facilities Engineering and Medical Repair; and follow its guidance. We at DPSC are ready to assist in any way we can to protect the Government's rights and to achieve a trouble-free system for your facility. To accomplish this, we must have your assistance and timely notifications as further discussed in the enclosure.

2. It is imperative that you review page one (1) of the enclosed contract delivery order contract (DD Form 1155), specifically blocks 4, 10, 14, 17 (AA fund cite for ITEM 0002AA) and 25 for accuracy. If there are any inaccuracies, immediately notify DPSC-MX by telephone (AUTOVON 444-2896, commercial (215) 737-2896).

3. The Defense Logistics Agency (DLA) surcharge is not included in the total contract price (Block 25 of DD Form 1155). This _____ will be assessed, at time of interfund billing, against the MG fund cite dollar amount identified in Block 17 of the DD Form 1155. This assessment plus the total dollar amount, block 25, is your total obligation.

4. Delivery of items on the subject contract has been scheduled _____ shown on the delivery order contract. If delivery is not made as scheduled, please advise DPSC-MX by message or telephone.

5. If you have any questions about the enclosed documents or if you require clarification, please contact us at the above telephone number.

FOR THE COMMANDER:

encl.

JOSEPH DOUGHERTY
Chief, Biomedical Systems Acquisition Mgmt Office
Directorate of Medical Materiel

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1. Under the terms of the contract, the contractor is required to visit the installation site to survey power/utility requirements and to furnish complete layout plans, room preparation drawings and instructions. He is required to visit the site within ten (10) days and provide drawings within thirty (30) days after receiving the delivery order. You should contact the contractor's local representative to determine when this service will be provided. It is imperative that you review the layout plans when you receive them and, if room alterations are required, that you take the necessary action to prepare the installation site as explained in the installation paragraph (see pages 2 & 3, paragraph B).

2. The customer is required to review site readiness no later than sixty (60) days prior to contract delivery date of equipment to insure receipt and installation of equipment can proceed within the timeframes cited in the contract. If you are unable to accept delivery and/or permit installation to start within the contract timeframe, notify DPSC-MX immediately by telephone (AV 4-2896, Com (215) 737-2896) and follow up with a message (TWX) or the form letter (Appendix 1). Request for delays must include the DPSC contract number with delivery order number, the project number and be received by DPSC-MX at least forty-five (45) days prior to contract delivery date of equipment to allow DPSC time for negotiations to revise delivery and/or installation dates.

3. When requesting delays of delivery and/or installation, it is imperative that realistic time frames be provided for rescheduling.

When an accurate time frame cannot be determined and best estimates vary over an extended time frame, it is preferred you request rescheduling to the farthest possible date. Once contract has been modified, it is easier to direct contractor to ship system early, then continually modify contract for short delays.

Note that storage charges and/or additional installation charges due to revised dates are the responsibility of the customer.

4. Customer responsibility to notify DPSC includes:

a. Request for change of delivery and/or installation dates; e.g. notifying DPSC-MX when room alterations will not be completed before the scheduled delivery date. (Appendix 1)

b. Notification to DPSC-MX when equipment is received.

(Appendix 2)

c. Notification to DPSC-MX immediately when installation is completed. (Appendix 3)

d. Quarterly report to DPSC-MX for any repairs accomplished under warranty. The final report is required within ten (10) days of expiration of warranty. (NEGATIVE REPLY IS REQUIRED) (Appendix 4)

NOTE: Local Reproduction of Appendix Forms is acceptable.

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5. The following paragraphs identify the terms and conditions of the contract requiring customer and/or contractor performance:

A. DELAY OF INSTALLATION

Installation shall not commence until authorized by the Chief, Medical Materiel Services at the hospital. It shall be the Contractor's responsibility to inform the Chief MMS, and to provide an information copy to the Contracting Officer, of any problems which are anticipated in connection with installation, or which will adversely affect performance of the equipment once installation is completed. Such matters as power limitations or inadequate preparation of the site shall be reported prior to start of installation.

B. INSTALLATION

When specified in the delivery order, installation of the apparatus and any required optional accessories shall be included. Installation by the contractor shall include all electrical and mechanical interconnection between components of the apparatus, and up to 15 feet of power wiring from the disconnect to the first component within the system (i.e. x-ray generator or power module). Wiring for x-ray inuse light and door interlock switch shall be provided when necessary. The contractor is responsible for pulling the wiring and interconnecting cable through the conduit provided by the activity. Unless otherwise specified in the delivery order, Contractor shall not be responsible for effecting the connection between the power source and the control unit; but shall supervise the installation of this electrical line. Unless otherwise specified in the delivery order, the Contractor installation shall not include rigging, carpentry work, plumbing, conduit, junction boxes, line switches or fuses. The Contractor is responsible for visiting the site of installation, within 10 days of receipt of delivery order to survey power and other utility requirements, room dimensions and other physical characteristics of the room necessary for proper room layout. The contractor will provide the Chief, Medical Materiel Services at the hospital, complete layout plans, room preparation drawings and instructions within thirty (30) days after receipt of delivery order.

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Room layout drawings shall take into consideration the reuse of existing room design and conduit within the room for placement of new components. For additional conduit requirements, the use of "wiremold" or surface mounted recovery is recommended, with size kept to the minimum necessary for the number of conductors to be protected. Installation instructions shall specifically indicate the point at which responsibility for utility connection will be assumed by the Contractor and shall indicate which material is to be Government furnished - Contractor installed. The Contractor shall meet with representatives of Radiology, Logistics Division, Medical Repair, and Civil Engineering/Public Works to review power and room modification requirements of the system.

Room Layout drawings provided by the contractor shall indicate wire sizes necessary to support the installation. The Government will provide wiring of a size and rating adequate to power a system of the generic size and type as specified on the delivery order; i.e. if generic generator is required to supply at 300mA at 125kVp, and offered item is capable of 600mA at 150kVp, the Government will be obligated to provide power adequate to service a system capable of 300mA at 125kVp. The contractor shall rate the generator accordingly.

It is the responsibility of the Government to ensure that room modifications are kept to a minimum, and to comply with the furnished drawings and instructions that provide for proper installation. Problems that cannot be resolved locally shall be directed to DPSC-MX for resolution.

Final recommendations concerning room layout and equipment requirements are to be forwarded by the Contractor for review and approval by the Contractor's Government representative who shall insure, prior to shipment of the system from the contractor's plant, that the x-ray system ordered will match the power recommendations.

Any changes necessary to complete installation caused by incomplete or erroneous drawings and/or instructions furnished will be the responsibility of the equipment Contractor.

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C. EXTENDED INSTALLATION

When specifically required by contract, the contractor shall furnish design plans, labor, materials, and equipment necessary to provide for installation, in accordance with the "Pre-Installation Site Survey", to accommodate the proposed diagnostic x-ray system. The installation effort should incorporate nationally recognized trade organization codes and satisfy the minimum requirements to provide a safe and functional system.

Extended installation shall include, as a minimum, connecting with existing utilities and furnishing and installing support structures for equipment.

COSMETIC WORK NOT INCLUDED IN THE SCOPE OF WORK OR CONTRACT IS THE RESPONSIBILITY OF THE GOVERNMENT AND SHALL NOT BE PERFORMED BY THE CONTRACTOR.

D. INSTALLATION TIME LIMITATIONS

Unless otherwise authorized by the Contracting Officer, installation of x-ray equipment shall not exceed:

- 10 Calendar days for mobile systems (Radiographic, mammographic, radiographic/fluoroscopic C-arms)
- 30 Calendar days for radiographic only systems.
- 60 Calendar days for Radiographic/Fluoroscopic systems with image intensifier system, TV system and spot film camera.
- 90 Calendar days for special procedure radiographic/fluoroscopic systems with image intensifier, TV system, spot film camera, and CINE.

When simultaneous notice to proceed is given on more than one x-ray room and installation under the terms of the preceding paragraphs would require concurrent installation of more than one fixed system at the same hospital, total time permitted for the installation of all systems shall be that shown by the applicable preceding paragraph or paragraphs for one system, plus thirty (30) calendar days for each additional system.

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In the event that progress of the installation is interrupted through no fault of the Contractor, the continuous installation defined in the "Contractor's Responsibility in Connection with Installation" clause may be terminated until such time as the cause of the delay has been eliminated, and then shall be resumed within twenty-four (24) hours after the Contractor has been notified by the Chief, Medical Materiel Services that work may again proceed. Except in those situations where life and/or property would be imperiled by such delay, termination of installation shall be made only after two (2) hours notice has been given to Chief, Medical Materiel Services at the hospital receiving installation.

E. CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUPERVISION IN CONNECTION WITH INSTALLATION

The Contractor shall provide qualified Field Service Engineers to supervise the installation and all necessary tests. Supervision of installation will be coordinated with the Chief, Medical Materiel Services at the hospital, and shall commence within 10 days after receipt of notice to proceed from the Chief. Once installation commences, it shall be continuous eight (8) hours per day basis, coinciding with normal working hours of the hospital. Compliance requires continuous presence of the Engineer on the job site during the daily working period. Supervision of installation shall be continuous without interruption, until all installation and testing work has been completed. The Contractor shall furnish supervision for the physical movement of the x-ray equipment from the storage point at the final destination to the area of installation and for uncrating of the equipment.

A qualified Field Service Engineer shall be able to communicate in English provide verbal interpretation and is technically qualified by factory approved maintenance training on the equipment being installed or serviced.

F. CONTRACTOR'S RESPONSIBILITY IN CONNECTION WITH INSTALLATION

The Contractor shall provide qualified Field Service Engineers to install and conduct all necessary tests which shall begin within ten (10) calendar days following notice to proceed from the Chief,

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Medical Materiel Services at the hospital. Once installation commences, it shall be on a continuous, eight (8) hours per day basis, coinciding with normal working hours at the hospital. Compliance requires the continuous presence of the Field Service Engineer on the job site during the daily working period. Installation shall be continuous without interruption until all installation and testing work has been completed. The Contractor must furnish supervision for the physical movement of the equipment from the storage point at the final destination to the area of installation and for uncrating of the equipment.

A qualified Field Service Engineer shall be able to communicate in English or provide verbal interpretation and is technically qualified by factor approved maintenance training on the equipment being installed or serviced.

G. CONTRACTOR'S RESPONSIBILITY FOR GOVERNMENT INSTALLED EQUIPMENT

The Contractor shall provide complete installation instructions, to include templates, optimum room layout, electrical and other utilities requirements, etc., within thirty (30) days of receipt of delivery order, to Chief, Medical Materiel Services at the hospital receiving the equipment.

H. ACCEPTANCE

Upon completion of installation and submission of the FDA Form 2579, the equipment will be turned over to the hospital for use. The Contractor shall furnish, upon completion of installation, written notice of readiness for inspection of the equipment to DPSC-MX, P.O. Box 8419, 2800 S. 20th St., Philadelphia, PA 19101-8419. Final acceptance of installation will be based upon an inspection and test to be performed at Government expense within thirty (30) calendar days from date of the receipt of request for inspection. The Chief, Medical Materiel Services at the hospital shall coordinate with the inspector, contractor, and radiologist to establish inspection date within the timeframe directed by DPSC-MX.

The Contractor shall connect test equipment and operate the x-ray equipment during inspection testing. Minor discrepancies which are corrected during the inspection will not be cause for rejection. If acceptance inspection is not conducted within thirty (30) calendar days from date of receipt of request

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for inspection, and/or the inspection results are not provided to the contractor within ninety (90) days thereafter, the installation shall be accepted. Use of equipment during the period between completion of installation and inspection or reinspection shall not negate the right on the part of the Government to reject installation, should it fail, nor to preclude default action against the Contractor in the event he fails to correct reported deficiencies.

In the event the installation is rejected as a result of the first inspection, the Contractor will be advised as to these deficiencies which were cause for rejection. It shall be the contractor's responsibility to correct reported deficiencies. When all deficiencies have been corrected and the equipment is ready for reinspection the contractor shall submit written notice of readiness for reinspection to DPSC-MX. Reinspection will be performed by the Government with all costs incurred, chargeable to the Contractor's account.

If conditional acceptance is granted, the Contractor has thirty (30) calendar days, after receipt of notification, to correct cited deficiencies. Failure to correct deficiencies within this specified time will result in warranty action and revision of the final acceptance date.

Deficiencies identified at the time of inspection which are corrected within fourteen (14) days after receipt of rejection from the Contracting Officer, and are verified by reinspection, will cause the final acceptance date to be the same date of the "Notice of Readiness for Inspection" was received at DPSC-MX.

The warranty on the equipment expires for one (1) year from the final acceptance date. The final acceptance date of the installation is the date the manufacturer's notice of readiness for inspection/reinspection, which results in acceptance, is received at DPSC-MX.

The final acceptance date for equipment without installation is the date the equipment is received at destination.

Failure of installation to be accepted upon reinspection, may result in subjecting the delivery order to the provisions of the

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"Default" clause contained in FAR 52.249 (see Clause I79 DPSC Form 4234 Apr 84), referenced in the contract.

I. WARRANTY

(1) The Contractor warrants the equipment against defective material, workmanship and performance for a period to commence from date of delivery through one (1) year following final acceptance of installation by the Government. The Contractor agrees to furnish, without cost to the Government, replacement of parts and material which are found to be defective during the warranty period. Replacement of material and parts will be provided to the Government at the point of installation. Cost of installation of replacement material and parts shall be borne by the contractor and shall be performed during normal working hours. For equipment without installation, warranty will address parts only.

(2) Evacuated devices and x-ray tubes (excluding image intensifier tubes) shall be warranted free from defect in material and workmanship which under normal use impair their operating life and shall be warranted for a period of twelve (12) months (or commercial warranty period, if greater) from premature failure, provided that an examination at the factory discloses no evidence of operator misuse or abuse. Cost for replacement of defective tubes during the warranty period shall be based on the following formula:

cost = list price (less Government discount), at time of failure,
times fraction of warranty period usage in months
(fractions of month in excess of 0.5 shall be rounded up
to a full month).

(3) Image intensifier tubes shall be free from defects in material and workmanship which under normal use impair their operating life and shall be warranted for a period of twenty-four (24) months. Cost for replacement of defective tubes during the warranty period will be based on the following formula:

cost = list price (less Government discount), at time of failure,
times fraction of warranty period usage in months
(fractions of months increase of 0.5 shall be rounded up
to a full month).

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J. NON-COMPLIANCE WITH CONTRACT REQUIREMENTS

In the event the Contractor, after receiving written notice from the Contracting Officer on non-compliance with any requirement of this contract, fails to initiate promptly such action as may be appropriate to comply with the specified requirement, the Contracting Officer shall have the right to order the Contractor to stop any or all work under the contract until the Contractor has complied or has initiated such action as may be appropriate to comply with the specified requirement. The Contractor will not be entitled to any extension of contract time or payment for any costs incurred as a result of being ordered to stop work for such cause.

K. DELAY IN DELIVERY OF ROTATING ANODE TUBES AND INTENSIFIER TUBES

When specifically requested on delivery orders, it shall be the responsibility of the Contractor to initiate the shipment of rotating anode tubes and image intensifier tubes just prior to the date they will be required to complete the installation. When the Contractor is involved in installation, such tubes shall be shipped to his representative for installation or supervision of installation.

L. PARTS AND SERVICE REQUIREMENTS

Service requirements shall be responded to on site within twenty-four (24) hours after notification. Service and technical data and repair parts shall be available for a minimum of ten (10) years following installation and acceptance of equipment furnished under the contract.

A Field Service Engineer must be able to communicate in English or provide verbal interpretation and is technically qualified by factory approved maintenance training on the equipment being installed and serviced.

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M. TRAINING OF OPERATOR PERSONNEL

The Contractor is responsible to provide on-site orientation and training of user personnel in day-to-day operation and user maintenance on the equipment furnished. Training will be provided by qualified contractor personnel after completion of installation, but prior to acceptance inspection. The Contractor will consult with the Chief, Medical Materiel Services at the site (or person acting in that capacity) regarding a schedule for the training. That official will be responsible for ensuring the presence of personnel to be trained. Factory approved service/repair training shall be made available upon request.

N. SERVICE DATA MANUALS

Service manuals shall contain the information listed below. If any of this information is not normally supplied in the Contractor's standard manual format, it may be supplied as an appendix. All pages in all parts of the manual shall be numbered and all illustrations and tables shall be titled and numbered. All instructions and data shall be in the English language and all schematics and wiring diagrams shall use American electrical and electronic symbols, or a cross reference to these symbols shall be provided.

a. Table of Contents shall: Include a listing of all major subjects and the page numbers on which they appear, in addition a list of all illustrations and a list of all tables to include the title and page numbers on which they appear.

b. General Information. This section shall contain the following :

(1) A full page composite illustration of the equipment, calling out the major assemblies with their nomenclature.

(2) A description of the equipment, its purpose, and its basic capabilities.

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(3) A table or listing of the equipment supplied.

(4) A table or listing of the equipment required (including cabling) but not supplied.

(5) A table or summary of the equipment specifications to include a listing of the type of transistors, fuses, semi-conductors, power requirements and other pertinent technical characteristics.

(6) A physical description of each major assembly to include weight and dimensions.

c. Installation. This section shall include pertinent information on unpacking, proper location of units, assembly, interconnections, initial adjustments, details of input power required, wire sizes, and cable fabrication details.

d. Operation. This section shall include step-by-step instructions for starting, operating, and stopping the equipment. Meter readings and the results to be expected from properly adjusted and operated equipment shall be supplied calling out all operating controls and indicators. All references to controls and indicators shall follow the specific designation on the panels and nameplates. Performance checks which may normally be performed by the operator shall also be given.

e. Theory or Principles of Operation. This section shall include a complete functional description of the system or equipment based on a system or equipment block diagram. For complex mechanical features, a complete explanation shall be given using block diagrams, exploded views, or cutaway drawings. Each major component shall be broken down to a block diagram or to simplified schematics where complexity of circuitry requires such detail. Conventional circuits may be described briefly; however, complex and novel circuits shall be described in detail. For equipment that employs pulse or digital circuits, wave shape or voltages at significant points in the pulse or digital circuits shall be shown. This information may be included in other sections of the manual but it must be clearly referenced.

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f. Maintenance. This section shall include all maintenance adjustments and procedures to be performed periodically for the purpose of preventing failure or impairment of equipment operation. Data shall include the recommended frequency of adjustment and performance verification checks. Information shall be included to permit a technician to locate trouble and make repairs or adjustments to the equipment. For complex equipment or where the procedure is not obvious, disassembly and reassembly procedures shall be described in outline form, and details and special test procedures given when necessary. Complete adjustment and maintenance information shall be given for relays and other electromechanical devices where applicable. Transistor or integrated circuit socket or terminal voltages and resistance readings shall be given for pertinent points in pulse or digital circuits. Waveform data shall include an illustration of the waveform, noting with peak voltage, duration, repetition rate, and control positions, where applicable. A list of all test equipment required to support the system/equipment shall be included in this section.

g. Storage. Instructions shall be included for indoor and outdoor storage, temperature and humidity limitations of storage facilities, inspections while in storage, preservation requirements, and inspection upon removal from storage.

h. Parts List. The parts list shall show part number, generic description and drawing or diagram reference designation for all electrical and mechanical components in the equipment, total quantity of components for end item, components true manufacturer and part number.

i. Drawings. In addition to the types of drawings already specified, the following types shall be included in the manual when applicable:

(1) Schematic diagrams of the individual major assemblies and/or the complete equipment or system.

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- (2) Logic diagrams.
- (3) Interconnection diagrams.
- (4) Cabling diagrams (wiring).

(5) Line drawings or photographs of the individual assemblies calling out all circuit components. These drawings are to support the parts list and should be placed as close to the parts list as practical. The references must correspond to those contained in the parts list.

j. Style, Format, and Method of Production. The style, format, and method of production of the technical manual will be in accordance with the contractor's standard commercial practice. However, the reproduction process used must be one that will produce a high quality permanent copy. A gelatin base stencil type method of reproduction is not satisfactory and shall not be used.

k. Arrangement of Manuals. Generally, the manuals should be sectionalized as outlined above; however, if it is normal practice of the contractor to include certain information in other sections, then this is acceptable. In any case, all of the information called for must be included in some convenient section of the manual.

1. Service Data Manuals Submission.

Two (2) copies of service manuals shall be furnished to the Chief of Medical Materiel Services at the activity receiving the equipment.

For Shipboard Systems, one copy of service data shall be provided to the Commanding Officer, Naval Medical Logistics Command. This copy shall be provided within thirty (30) days of award of the first delivery order for that shipboard system.

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O. ADVANCED SERVICE PACKAGE(ASP)

When specifically required by the contract the contractor, shall provide this service package to the Chief, Medical Materiel Services at the activity identified in the contract. The Chief, Medical Materiel Services shall sign a custody receipt, provide security, storage and ensure that the service package is not copied nor used by unauthorized personnel. Authorized user personnel shall be limited to the military or civil servant BMET assigned to maintain the equipment. Third party or contracted personnel are not authorized use of the service package.

Should the government fail to provide proper safeguard to the ASP or contract for third party maintenance support, the service package shall be returned to the contractor.

"ADVANCED SERVICE PACKAGE" consists of: Advance Service Documentation, Advanced Service Software and Advanced Service Tools.

"ADVANCED SERVICE DOCUMENTATION" means proprietary service documentation embodying service features or techniques, that are not generally available to repair personnel without specific knowledge of the particular equipment. ASP may also include advanced information developed by and/or provided to the Company for installation, maintenance and/or repair of the Equipment and bearing a label or a notice which reads as follows:

"ADVANCED SERVICE DOCUMENTATION
PROPERTY OF _____

DO NOT COPY.

DISCLOSURE TO THIRD PARTIES PROHIBITED"

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"ADVANCED SERVICE SOFTWARE" means proprietary service Software and documentation developed by and/or provided to the Company for installation, maintenance and/or repair of the Equipment and bearing a label or incorporating or displaying a notice which reads as follows:

"ADVANCED SERVICE DOCUMENTATION
PROPERTY OF _____

DO NOT COPY.

DISCLOSURE TO THIRD PARTIES PROHIBITED"

"ADVANCED SERVICE TOOLS" means proprietary, tangible, service instruments or instrument combinations which have been developed by and/or provided to the Company for installation, maintenance and/or repair of the Equipment and bearing a notice or label which reads as follows:

"ADVANCED SERVICE DOCUMENTATION
PROPERTY OF _____

DO NOT COPY.

DISCLOSURE TO THIRD PARTIES PROHIBITED"

FROM:

SUBJECT: Request for Change of Delivery and/or Installation Dates

TO: DPSC-MX
2800 South 20th St.
P.O. Box 8419
Philadelphia, PA 19101-8419

1. Reference: X-ray Equipment, Requisition #. _____,
Contract # including Delivery Order #. DLA120-_____,
and DPSC-MX Project #. _____.

2. I request that the contract delivery date and/or installation date for the referenced system, be delayed/accelerated to _____ (NOTE: Line out item that does not apply.)

3. NOTE: (State reasons for the requested change).

4. The above change is requested by: (Please sign this letter and provide a complete mailing address, Autovon and Commercial phone numbers and an alternate point of contact.)

APPENDIX 1

FROM:

SUBJECT: Notice of Receipt of Equipment

TO: DPSC-MX
2800 South 20th St.
P.O. Box 8419
Philadelphia, PA 19101-8419

1. Reference: X-ray Equipment, Requisition #. _____,
Contract # including Delivery Order #. DLA120- _____,
and DPSC-MX Project #. _____.
2. Equipment identified by the referenced delivery order was
received on _____ (date).
3. Point of contact at this activity is
_____, Autovon _____, Commer-
cial () _____.

FROM:

SUBJECT: Notice of Installation Completion

TO: DPSC-MX
2800 South 20th St.
P.O. Box 8419
Philadelphia, PA 19101-8419

1. Reference: X-ray Equipment, Requisition #. _____,
Contract # including Delivery Order #. DLA120- _____,
and DPSC-MX Project #. _____.
2. Installation of equipment identified by the referenced
delivery order was completed on _____ (date).
3. Point of contact at this activity is:
_____, Autovon _____, Commer-
cial () _____.

FROM:

SUBJECT: Quarterly System Performance Report

TO: DPSC-MX
2800 So. 20th St.
P.O. Box 8419
Philadelphia, PA 19101-8419

1. Reference: X-ray Equipment, Requisition #. _____,
Contract # including Delivery Order #. DLA120-
and DPSC-MX Project #. _____.

2. Point of contact at this activity is
_____, Autovon _____, Commer-
cial () _____.

NOTE: If this is the final report for this system, please attach a summary similar to the format described below, that provides an overall record of the system operation during the warranty period, and evaluation of manufacturer's service support.

<u>Date of Repair</u>	<u>Work Performed</u>	<u>Parts Replaced</u>	<u>Number of Down days</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____