



PRODUCT DESCRIPTION

**DEPARTMENT OF VETERANS AFFAIRS
Strategic Acquisition Center**

**Operating Room (OR) Lights and Booms
Date: 4/18/2017**

Product Description Version Number: 3.0

OR LIGHTS AND BOOMS

PRODUCT DESCRIPTION

1. REQUIREMENTS:

The Louis Stokes Cleveland VA Medical Center (VAMC) is in the process of standardizing its current platform of operating room (OR) lights and booms in the facility. The facility currently has a total of 10 operating room suites and 2 additional ORs are being constructed. Three operating suites have already been upgraded with replacement OR lights and booms. This requirement will continue the expansion and continuity throughout the remaining operating room suites. As a result of this acquisition an additional 7 existing operating rooms and 2 hybrid operating rooms under construction will need to be outfitted to match the three existing OR suites which have already be upgraded. The existing lights and booms are at the end of their life and have been failing on a regular basis. Biomedical Engineering is unable to continue repairing these systems. These systems must provide the best quality of care to our Veterans having surgical procedures. Attachment A has been provided to detail the equipment requirements for each Operating Room at the Louis Stokes Cleveland VAMC.

Contract Line Item Number (CLIN)	Item Description	Unit Of Issue	Quantity
0001	Surgical Light System	EACH	24
0002	Boom Ceiling Mount	EACH	28
0003	Monitor Arm System	EACH	22
0004	Anesthesia Gas Booms	EACH	9
0005	Equipment Booms	EACH	9
0006	Perfusion Boom	EACH	2
0007	Lead Shield (Boom Mounted)	EACH	4
0008	Lead Shield Boom	EACH	4
0009	59" HD Monitor Boom - Powered	EACH	4
0010	Assembly	EACH	9
0011	In-Servicing: Clinical Staff and Biomedical Staff Training	DAY	5
0012	Biomedical Staff Training	DAY	1

2. PURPOSE AND OBJECTIVES:

- a. **Contract Type and Duration:** This procurement will be a Firm-Fixed-Price single award purchase order. All items are to be delivered in accordance with the agreed

OR LIGHTS AND BOOMS

delivery date at award.

- b. **Contract Effective Date:** The effective date of the purchase order will be date of award.
- c. **Salient Characteristics/Scope:** The contractor shall provide OR Lights and Booms for the 7 existing ORs and 2 Hybrid ORs and training which meet the following performance standards:

Number	Salient Characteristics
	Surgical Light System Requirements (CLINs 0001 & 0002)
1	The Surgical Head Lights shall provide four color temperatures to ensure concentration on working areas, and shadow free views
2	The Surgical Head Lights shall provide a range of 3600 kelvin (K) - 5000K to reduce reflection and glare from the surgical instruments; allow visibility of perfusion; and provide visibility of deeper lying tissues
3	The Surgical Head Lights shall be 160000 lux (lx)
4	The Surgical Lights must be ceiling mounted with unrestricted rotations for freedom of movement (360 degrees) at all 4 rotation points
5	The Surgical Head Lights must have a main control panel wall mounted near the nurse's desk (existing ORs) or control room (hybrid ORs). Additionally, the Surgical Lights must be able to be controlled from the lighting assembly.
6	The standardized boom system must be capable of supporting a camera system, monitors, light heads, equipment carrier, lead shields (Hybrid ORs) and anesthesia gasses
7	The surgical field lighting shall be Light Emitting Diode (LED)
8	Each Operating Room (OR) must have a surgical light which supports a 1080 progressive scanning (p) in-light camera system
	Monitor Arm System Requirements (CLIN 0003)
9	Monitor arms shall support a minimum of a 26 inch display to a maximum of a 34 inch display with Standard Video Electronics Standards Association (VESA) mounting bracket
10	All monitor arms shall provide hollow arms to accept any vendor's integration video cable
11	The contractor shall provide the interior diameter of their display arms for cable pass through
12	All mounts shall not exceed a maximum of three arms per boom mount structure

OR LIGHTS AND BOOMS

Number	Salient Characteristics
	Anesthesia Gas Service Boom Requirements (CLIN 0004)
13	<p>The anesthesia service boom shall be a Powered Articulation Boom with electric brakes and provide the following:</p> <p>A minimum of 8 duplex power outlets</p> <ul style="list-style-type: none"> • Support for gases - Nitrogen, Oxygen (O2), Medical Air, Nitrous Oxide, Medical Waste Gas, and Vacuum. <ul style="list-style-type: none"> ○ The quantity of gas outlets shall depend on the gas outlet capacity of the successful vendor. The final quantities shall be determined at the installation or activation of each OR • 2 wall plates with 4 data jack each for data and patient monitoring. • Video input wall plate with Digital Visual Interface (DVI) Video, Video Graphics Array (VGA), and composite video inputs • May provide a minimum of 2 shelves
	Equipment Boom Requirements (CLIN 0005)
14	<p>Equipment booms shall be a Powered Articulation Boom with electric brakes and support the following equipment:</p> <ul style="list-style-type: none"> • Light Source • Insufflator • Camera, Camera Control Unit (CCU) • Emergency Service Unit (ESU) • Integrated Support for Nitrogen (wall or boom mounted), Carbon Dioxide (CO2), Medical Air, Suction, Vacuum <ul style="list-style-type: none"> ○ The quantity of gas outlets shall depend on the gas outlet capacity of the successful vendor. The final quantities shall be determined at the installation or activation of each OR • Video input wall plate with Digital Visual Interface (DVI) Video, Video Graphics Array (VGA), and composite video inputs
15	The contractor shall provide equipment booms with a minimum of 4 shelves
16	The contractor shall provide a minimum of 10 duplex power outlets; each outlet shall be of its own circuit breaker; a minimum of 20 (amps) each
	Boom Mounted Lead Shield Requirements (CLIN 0007 & 0008)
17	The contractor shall provide a boom to support each lead shield on each side of the patient within each Hybrid OR. Each Hybrid OR shall have 2 lead shields

OR LIGHTS AND BOOMS

Number	Salient Characteristics
	59" HD Monitor Boom - Powered Requirements (CLIN 0009)
18	The 59" Monitor Boom shall be capable of moving up, down, and to the sides and may be electronically controlled from the surgical field and electronically controlled from the control room (Hybrid ORs)
	Assembly (CLIN 0010)
19	The contractor shall be responsible for providing all pre-installation equipment and documentation to ensure the safe installation of the lights and booms within each OR. The contractor shall be responsible for completing assembly of the lights and booms for each OR. Assembly includes assembling the lights and booms for each OR. The VA/General Contractor shall be responsible for all applicable, data, electrical, gas and plumbing required prior to installation. Additionally, the VA/General Contractor shall connect and certify all electrical, gas and plumbing lines while the contractor hangs the lights and booms for each OR
	In-Servicing: Clinical Staff and Biomedical Staff Training (CLIN 0011)
19	<p>The contractor shall provide and facilitate End User and Biomedical training appropriate for use of the 7 replacement operating rooms and 2 hybrid operating rooms, for Nursing Service and Biomedical. The training plan shall be developed 4 – 6 weeks before delivery with the Nurse Educator and Contracting Officer's Representative (COR). Initial In-Service Training shall be coordinated with the COR and Nurse Educator within seven (7) calendar days after acceptance and installation of the first delivery of replacement OR Lights and Booms. The vendor shall contact the COR and work with the Nurse Educator to determine training plans, date(s) and time(s) which shall be mutually agreed upon four weeks before delivery. The plan should consider new user training, and Biomedical staff of the servicing equipment. Training categories are as follow:</p> <ul style="list-style-type: none"> • End User: Basic familiarity, functional use, and operation of the 7 replacement OR Lights and Booms and 2 Hybrid Rooms • Advance: Training for the Nurse Educator shall be provided to ensure they are trained to be a trainer of the equipment • Biomedical: Maintenance servicing of the equipment in accordance with the Original Equipment Manufacturer's (OEM's) and process for troubleshooting issues which may occur to the equipment during warranty period <p>Note: Training materials will include, but are not limited to, handouts and</p>

OR LIGHTS AND BOOMS

Number	Salient Characteristics
	training materials such as media (DVD's, CD's, videos, etc. if required) in sufficient quantity for each participant as deemed by the COR. The date and time of training will be confirmed with the COR at least two weeks before the training event(s).
	Biomedical Staff Training (CLIN 0012)
20	Onsite or Offsite training shall be provided to the Biomedical staff so that they can be trained as "1 st responders" in the event of equipment issues. If Offsite training is provided the cost of travel for Biomedical personnel should not be considered.

3. EXTENT OF OBLIGATION

a. **Government Participants:**

The Contractor shall provide delivery of the replacement and hybrid OR Lights and Booms, as specified in the delivery order, directly to the Louis Stokes, Cleveland VAMC Warehouse, 10701 East Blvd, Cleveland, OH 44106.

b. **Delivery Requirements:**

Delivery shall be made Free On Board, (FOB) destination to the Louis Stokes, Cleveland VAMC, 10701 East Blvd, Cleveland, OH 44106. Upon delivery of equipment, the medical center shall thoroughly inspect the equipment. After the inspection has been performed, the medical center shall issue a written notice of acceptance or rejection. The written notice shall be issued within 30 days from the date of delivery. If a written notice is not received by the company within 30 days, the VA shall be deemed to have unconditionally accepted the equipment.

c. **Inspection and Acceptance:**

The acceptance paragraph in FAR 52.212-4 is based upon the assumption that the Government will rely on the contractor's assurance that the commercial item tendered for acceptance conforms to the order requirements. The Government inspection of commercial items will not prejudice its other rights under the acceptance paragraph. The provisions of 52.212-4 are incorporated by reference.

d. **Warranty:**

The contractor shall provide warranty of all parts, labor, preventative maintenance and support services immediately following go-live of each OR at no cost for a period of at least two years. In addition, the contractor must be available for telephone technical, support 24 hours a day, 365 days a year. Face

OR LIGHTS AND BOOMS

to face support shall be available during Normal Business hours.

e. **Delivery/Performance Time:**

Delivery of the OR lights and booms shall occur in a phased approach to ensure the facility is provided with adequate to complete all site preparations and make adjustments if needed to each OR based on lessons learned during the delivery and installation. Delivery of the OR lights and booms shall occur on a 8 week cycle after delivery of the first equipment package. Considering the construction schedule of the 2 hybrid operating rooms this equipment shall be delivered and installed last. Below is a proposed Phased approach to delivery and installation of the OR lights and booms; however, the schedule is subject to change based on construction requirements at the facility. The contractor shall contact the COR to finalize the delivery schedule 7 days ARO.

Phase	Summary of OR Room Delivery and Installation Schedule
I	OR 4 and OR 5 shall be delivered within 60 days after approved drawings. However, the COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.
II	OR 6 and OR 7 shall be delivered 8 weeks after delivery of ORs 4 and 5. However, the COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.
III	OR 1 shall be delivered 8 weeks after delivery of ORs 6 and 7. However, the COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.
IV	OR 2 shall be delivered 8 weeks after delivery of OR 1. However, the COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.
V	OR 3 shall be delivered 8 weeks after delivery of OR 2. However, the COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.
VI	2 hybrid rooms shall be delivered 8 weeks after notification by the COR. The COR shall be contacted to confirm the delivery date and time. Installation shall occur within 14 days after delivery.

i. **7 Replacement OR Lights and Booms: Description of schedule for Move, Assembly, Installation and In-Servicing -**

The delivery and installation Phases described in section e.

Delivery/Performance Time sets forth a summary of the delivery and installation for each replacement OR through the 2 hybrid ORs. This section details the milestones associated with Phases I through V (ORs 4, 5, 6, 7, 3, 2, and 1) starting with the delivery of all equipment associated with OR 4.

The OR lights and booms vendor shall contact the COR, Mr. Adams, to confirm the delivery date and time for all equipment for OR 4 and 5 within 60 days after the approved drawings. Within 7 calendar days after delivery of the replacement OR lights and booms for ORs 4 and 5, the facility will be responsible for moving all replacement OR lights and booms equipment to the appropriate operating

OR LIGHTS AND BOOMS

room delineated in Attachment A.

The COR, shall contact the OR lights and booms vendor to confirm the assembly and installation date within 5 business days after delivery of the replacement OR lights and booms. Within 5 business days, after confirming the assembly and installation date and time, the OR lights and booms Vendor shall be onsite to complete assembly and be present while the GC completes installation.

The COR, Mr. Adams will contact the OR lights and booms vendor within 14 calendar days after assembly and installation of ORs 4 and 5 with the date and time for in-servicing for the Clinical and biomedical Staff to take place for the ORs.

ORs 6 and 7 shall repeat the same delivery and installation process as set forth above. Then ORs 3, 2, and 1 shall too follow the same delivery and installation process except these ORs shall be individually completed. The delivery of ORs 6 and 7, 3, 2, and 1 shall occur 8 weeks after delivery of the preceding OR. Each time the COR shall be contacted within 5 days of delivery to confirm the delivery date and time. Therefore, ORs 6 and 7 shall be delivered 8 weeks after ORs 4 and 5; OR 3 shall be delivered 8 weeks after OR 6 and 7; OR 2 shall be delivered 8 weeks after OR 3; OR 1 shall be delivered 8 weeks after OR 2; and finally, the 2 hybrid ORs shall be delivered 8 weeks after notification by the COR.

ii. **2 Hybrid OR Lights and Booms: Description of schedule for Move, Assembly, Installation and In-Servicing -**

This section details the milestones associated with Phase VI (2 hybrid ORs) which occurs 8 weeks after the delivery of OR 1.

The OR lights and booms vendor shall contact the COR, Mr. Adams, to confirm the delivery date and time for all equipment for the 2 hybrid ORs within 5 business days after delivery of OR 1 to confirm the date and time of delivery of all equipment for the 2 hybrid ORs. Within 7 calendar days after delivery of the 2 hybrid OR lights and booms the facility will be responsible for moving all equipment to the appropriate operating room delineated in Attachment A.

The COR, shall contact the OR lights and booms vendor to confirm the assembly and installation date within 5 business days after delivery of the 2 hybrid OR lights and booms. Within 5 business days, after confirming the assembly and installation date and time, the OR lights and booms Vendor shall be onsite to complete assembly and be present while the GC completes installation.

f. **Warranty:**

The Government post award rights contained in FAR 52.212-4 are implied warranty of merchantability, the implied warranty of fitness for particular purpose and the remedies contained in the acceptance paragraph. The provisions of FAR 52.212-4 are incorporated by reference.

OR LIGHTS AND BOOMS

- i. Maintenance and operations manuals shall be provided for each OR.

4. **SCHEDULE FOR DELIVERABLES**

Inspection: Destination

Acceptance: Destination

Free on Board (FOB): Destination

Ship To and Mark For: Louis Stokes, Cleveland VAMC Warehouse
(Attention: William Precht or Nicole Wagner)
10701 East Blvd
Cleveland, OH 44106

Special Shipping Instructions:

Prior to shipping the contractor must coordinate delivery with the COR before shipment of the replacement and hybrid OR Lights and Booms to ensure the site has adequate storage space.

All shipments, either single or multiple container deliveries, will bear the VA Purchase Order number on external shipping labels and associated manifests or packing lists. In the case of multiple container deliveries, a statement readable near the VA PO number will indicate total number of containers for the complete shipment (ex. "Package 1 of 2"), clearly readable on manifests and external shipping labels.

Packing Slips/Labels and Lists shall include the following:

IFCAP PO # _____ (i.e., 166-E11234)

Total number of Containers: Package ____ of _____. (i.e., Package 1 of 3)

NOTE: Operating Room Lights and Booms

5. **INFORMATION SECURITY CONSIDERATIONS:**

The Certification and Accreditation (C&A) requirements do not apply and a Security Accreditation Package is not required.

6. **SECURITY REQUIREMENTS:**

All contract employees who require access to VA sites or VA local area network (LAN) systems must submit to a background investigation and receive favorable adjudication. All contract employees who will have access to VA facilities, systems, or privacy/sensitive data must fill out local level requirement for any needed badging or other access-related processes that must take place, including submission of VA Form 0711 to obtain logical and physical access to VA facilities and systems.

OR LIGHTS AND BOOMS

6. POINT(S) OF CONTACT:

VA Project Manager:

Name: William Precht

Address: Louis Stokes Cleveland VA Medical Center
10701 East Boulevard
Cleveland, OH 44106

Voice: 216-791-3800 x 2042

Email: william.precht@va.gov

OR LIGHTS AND BOOMS

ATTACHMENT A

The table below details the equipment requirements for each Operating Room at the Louis Stokes Cleveland VAMC.

OR	Light Heads & Booms	Monitor Arms & Brackets(26")	Anesthesia Boom	Equipment Carrier	Monitor Arms and Brackets (59")	Lead Shields & Arms	Perfusion Boom	Ceiling Mounts	Light Control Box
1	3	3	1	1	0	0	0	3	1
2	3	3	1	1	0	0	0	3	1
3	3	3	1	1	0	0	0	3	1
4	3	3	1	1	0	0	0	3	1
5	2	2	1	1	0	0	0	2	1
6	2	2	1	1	0	0	0	2	1
7	2	2	1	1	0	0	0	2	1
Hybrid 1	3	2	1	1	2	2	1	5	1
Hybrid 2	3	2	1	1	2	2	1	5	1
Total	24	22	9	9	4	4	2	28	9