STATE OF CALIFORNIA
Department of General Services - Office of Procurement
PURCHASE ORDER

Form GSOP 1-PIN (04/98)

Purchase Order No.	Rev.	Date
62184		6/30/2008

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
811606	57058	140 Days ARO	Destination	

ADVANCED SURGICAL INC
54 ALPINE CIRCLE
MAMMOTH LAKES, CA 93546
Attn: KATHY STEWART

Phone: 760-934-1857

Ship To
NAPA STATE HOSPITAL
2100 NAPA-VALLEJO HIGHWAY
NAPA, CA 94558-6293
Attn: MAIN WAREHOUSE

Charge To
NAPA STATE HOSPITAL
ACCOUNTING OFFICE
2100 NAPA-VALLEJO HIGHWAY
NAPA CA 94558-6293

Agency Billing	Agency Purchase Estimate	Purchase Estimate	Revision
49802	7-EST-0003	67106	2

Agency Contact	Phone	Date Received
VICTOR GARCIA	707-253-5667	

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension

THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT:

www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:

PRIME CONTRACTOR: SB

FISCAL YEAR: 2007/2008

FOR THE PURPOSE OF THIS AWARD, ONLY F.O.B. Destination will be accepted.

This Purchase order has been registered into the state contact and procurement registration system (https://www.scprs.dgs.ca.gov/). The registration number is: 17600908333720.

NOTE: Attachments accompany this PO as follow:

SPECIFICATIONS
ATTACHED #6630-0028 OF THREE (3) PAGES DATED, 05/21/08

DRAWINGS
ATTACHED OF TWO (2) PAGES

1	1	EA	6830-683-0200-6	OXYGEN LIQUID NINE HUNDRED (900) GALLONS, PER THE ATTACHED SPECIFICATIONS #6630-0028	53,711.0000	53,711.00
2	2	EA	6630-478-8093-3	AMBIENT AIR VAPORIZER (AS DESCRIBED) 2500 SCFH	3,230.0000	6,460.00
3	1	EA	6625-005-0016-2	MONITOR DATA TELEMETRY	0.0000	0.00
4	1	EA	6530-002-0154-2	CABINET MEDICAL INSTRUMENT MEDICIAL CONTROL CABINET W/ ALARM	15,435.0000	15,435.00

Sales and/or use tax to be extra unless noted above

Buyer	Phone	BOC Number
EVONNE ROGERS	916-375-4346	

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

Purchase Order No.	*Revision*	*Date*	*Supplier No.*	*Supplier Name*
62184		6/30/2008	811606	ADVANCED SURGICAL INC

Item No.	*Quantity*	*Unit*	*Commodity Code*	*Description*	*Unit Price*	*Extension*

Total Value: 75,606.00

This purchase order is being awarded on September 19th, 2008 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.

CHANGE ORDERS:

This Purchase Order may be amended, modified or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.

1.0 SCOPE

This document describes the minimum requirements for a liquid oxygen system. The system will be used for storage of liquid medical grade oxygen and supply of oxygen gas to the hospital for patient use.

2.0 APPLICABLE SPECIFICATION AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid, form a part of this specification where referenced.

3.0 REQUIREMENTS

The oxygen supply system shall, at minimum, consist of a liquid storage tank, two ambient vaporizers, remote telemetry, and medical gas control cabinet. These components shall come with all necessary components (valves, switches, etc.)

3.1 Liquid Oxygen Tank (Diagram #M15-CONT01):

3.1.1 Vertical mounting, double-wall construction with inner vessel fabricated according to ASME Boiler and Pressure Vessel Code for unfired pressure vessels and suitable for medical gas service. The design shall include insulation and vacuum seal between walls. The tank shall include the following features, specialties, and components(as shown in Diagram # M15-CONT01):

a) Safety Valves: ASME construction with pressure setting to correspond to tank working pressure and as required for component or system being protected.

b) Pressure Gages: For tank pressure and facility service line pressure.

c) Content Gage: High and low level indicator with electric signal circuit connection.

d) Drain Valves: For piping, inner vessel, and outer shell.

e) Fill Assembly: Fill connection, piping, valves, relief devices, and controls.

f) Facility Service Assembly: Piping, valves, relief devices, vaporizer, shutoff valve, pressure regulator, line shutoff valve or check valve, and reserve supply connection for connection to building service piping.

g) Include permanent label showing medical gas type, storage tank capacity, tank pressure rating, vaporizer capacity, and operating instructions.

h) Working Pressure: At least 250 psig.

i) Storage Capacity: 900 gallons of liquid oxygen.

j) Inner vessel material: SA353 9% nickel-steel.

k) Outer vessel material: A36 carbon steel with factory-applied manufacturer's standard protective paint finish suitable for exterior wall.

l) Design temperature: -20°F to 200°F.

m) Control: As identified on the attached diagram # M15-CONT01. Include actuating switch for alarm system connection and means for automatic actuating of supply, complying with 2004 NFPA 99.

n) Tank outer diameter: Not more than 85".

3.2 Ambient Vaporizer:

3.2.1 Type: Stand-Alone module. All aluminum, stainless steel lined, high-pressure and electro-polished, with five-inch gap minimum between finned elements.

3.2.2 Thermal Cycling: ANSI B313

3.2.3 Wind Load Criteria: 2007 CBC, 100 mph minimum.

3.2.4 Seismic Design: 2007 CBC, Chapter 16 and ASCE 7-05.

3.2.5 Rating: 8-24-hour, based on 11 SCFH/sq. ft. of external surface and a 10°F/20°F approach temperature of 70°F./70% RH.

3.2.6 Capacity: 3185 SCFH

3.3 Medical Gas Cabinet with alarm (Diagram # M15-CONT02):

3.3.1 To monitor main oxygen supply and reserve supply.

3.3.2 Will be interfaced with the hospital alarm system.

3.3.3 Construction: NEMA 4X

3.3.4 Exterior Finish: Stainless steel

3.3.5 Power: 115 VAC to 24 VDC transformer at 1.3amps.

3.3.6 Pressure Switches: a) Reserve in use pressure, b) Reserve pressure- low pressure.

3.3.7 Alarms:
a) To hospital "Reserve in-Use Alarm". Main tank low.

b) To hospital "Reserve Pressure Low- Alarm." Reserve cylinders low.

c) To hospital "Reserve Low-Level Alarm-Main." Main tank.

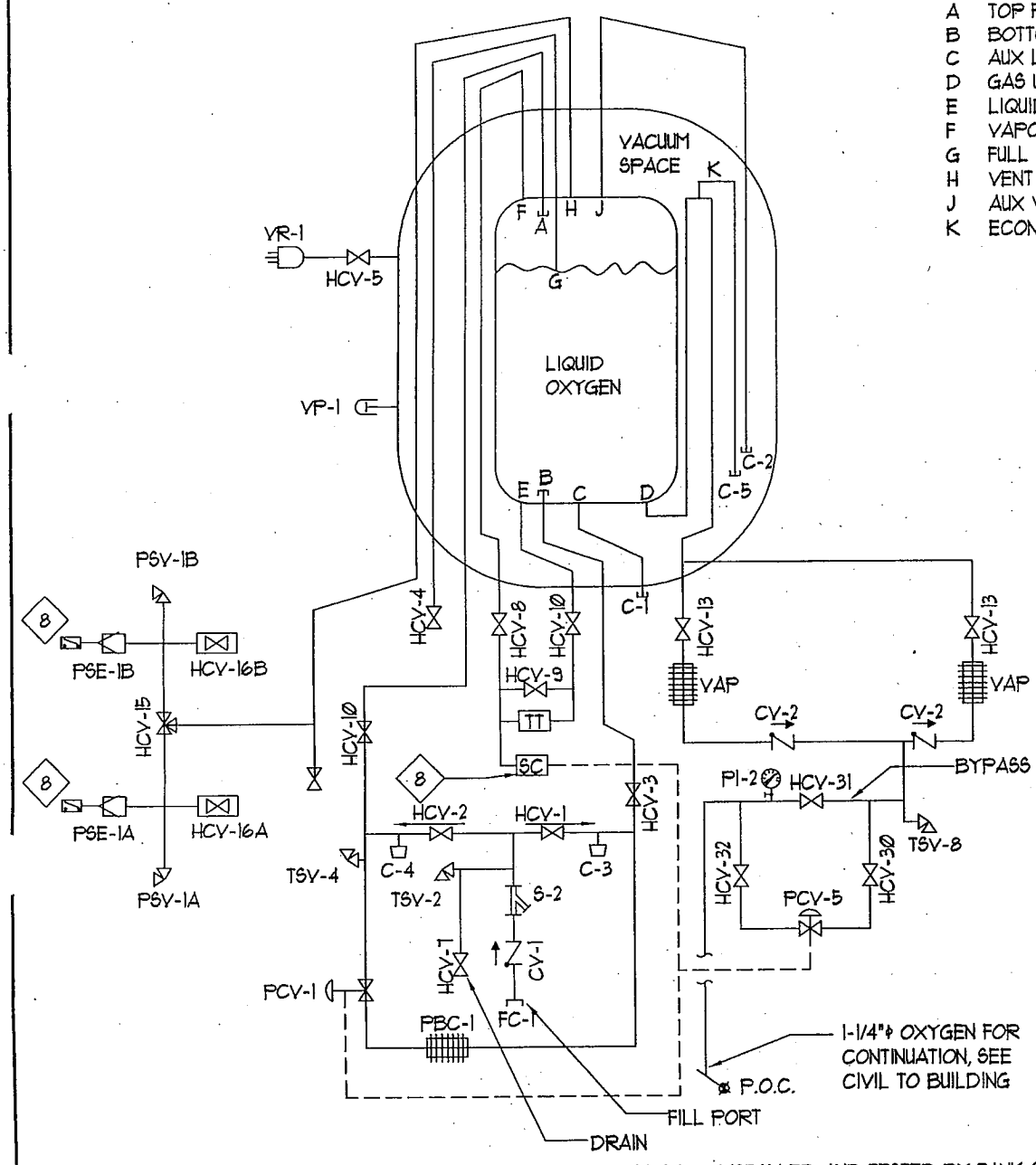
d) To hospital "Low-Level Alarm-Reserve." Reserve Cylinder.

3.3.8 Relief: 1) 350 psi value, 2) 75 psi value.

3.3.9 Check valves:
Pressure rating: 300 psig, minimum
Operation: Spring loaded
Ends: Manufacturer-installed ASTM B819, copper-tube extensions.

3.3.10 Ball Valves:
Pressure rating: 300 psig, minimum
Ball: Full-port, chrome-plated brass.
Seats: TFE
Handle: Lever type with locking device
Stem: Blowout proof with PTFE or TFE seal.

Ends: Manufacturer-installed ASTM B 819, copper-tube extensions.
Seals: Viton



C-1	CONNCECTION, AUX LIQUID
C-2	CONNECTION, AUX VAPOR (NOT USED)
C-3	CONNECTION, SECONDARY AUX LIQUID
C-4	CONNECTION, SECONDARY AUX VAPOR
C-T	CAP. ECONOMIZER (NOTE USED)
CV-1	CHECK VALVE, FILL
FC-1	CONNECTION, FILL
HCV-1	VALVE, BOTTOM FILL
HCV-2	VALVE, TOP FIL
HCV-3	VALVE, TOP FILL
HCV-4	VALVE, REDUNDANT BOTTOM FILL
HCV-5	VALVE, FULL TRYCOCK
HCV-7	VALVE, VACUUM GAUGE TUBE
HCV-8	VALVE, FILL LINE DRAIN
HCV-9	VALVE, L2-2 VAPOR PHASE
HCV-10	VALVE, LI-1 EQUALIZATION
HCV-11	VALVE, LI-1 LIQUID PHASE
HCV-12	VALVE, REDUNDANT TOP FILL
HCV-13	VALVE, VAPOR VENT
HCV-15	VALVE, GAS USE
HCV-16A	VALVE, SAFETY RELIEF SELECTOR
HCV-16B	VALVE, RELIEF LINE PURGE
TT	VALVE, RELIEF LINE PURGE
SC	TANK TEL (LIQ LEVEL, PRESS INR VES)
PBC-1	SYSTEM CONTROLLER
PCV-1, PVC-5	PRESSURE BUILDING COIL, INR. VESSEL
PSE-1A	PRESSURE CONTROL VALVE
PSE-1B	PRESSURE SAFETY ELEMENT, INR. VES.
PSV-1A	PRESSURE SAFETY ELEMENT, INR. VES.
PSV-1B	PRESSURE SAFETY VALVE, INR. VES.
S-1	STRAINER, PRESURE BUILDING
S-2	STRAINER, FILL
TSV-2, 1A, 1B	THERMAL SAFETY VALVE, FILL
TSV-3	THERMAL SAFETY VALVE, PB CIRCUIT
TSV-4, 8	THERMAL SAFETY VALVE, PB CIRCUIT
VP-1	VACUUM PORT
VR-1	VACUUM READOUT, OUTER VESSEL
C-8	CONNECTION, CUSTOMER HOUSELINE
CV-2	CHECK VALVE, HOUSELINE
HCV-30	VALVE, INLET HOUSELINE
HCV-31	VALVE, BYPASS HOUSELINE
HCV-32	VALVE, OUTLET HOUSELINE
PCV-5	PRESSURE CONTROL VALVE. HOUSELINE
PI-2	PRESSURE INDICATOR, HOUSELINE
TSV-8	THERMAL SAFETY VALVE, HOUSELINE
VAP	AMBIENT VAPORIZER
INR. VES.	INNER VERSSEL

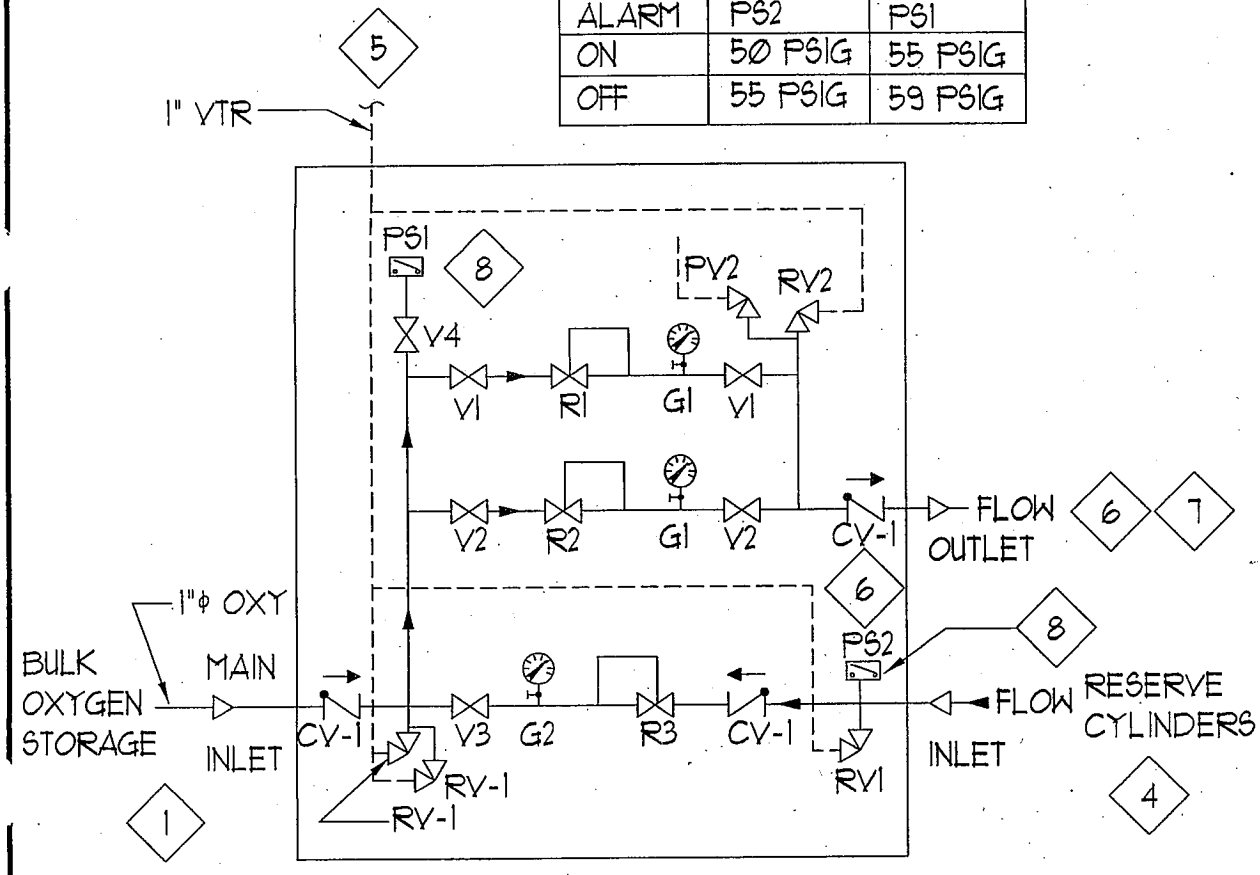
NOTE: TANK AND COMPONENTS SHALL BE PROVIDED, CLEANED, INSTALLED AND TESTED BY TANK SUPPLIER AS AN ASSEMBLY.

M15_CONT01

BULK OXYGEN STORAGE TANK CONTROL DIAGRAM

NTS

ALARM	PS2	PS1
ON	50 PSIG	55 PSIG
OFF	55 PSIG	59 PSIG



R1	MAIN FINAL LINE REGUALTOR
R2	BACK-UP FINAL LINE REGULATOR
R3	RESERVE SYSTEM REGULATOR
V1	MAIN FINAL LINE REGULATOR ISOLATION VALVES
V2	BACK-UP FINAL LINE REGULATOR ISOLATION VALVE
V3	RESERVE SYSTEM REGULATOR ISOLATION VALVE
V4	RESERVE N-USE PRESSURE SWITCH ISOLATION VALVE
RV1	RELIEF VALVE (350 PSI)
RV2	RELIEF VALVE (75 PSI)
G1	FINAL LINE PRESSURE GAUGE
G2	RESERVE SYSTEM PRESSURE GAUGE
CV-1	CHECK VALVES
PS1	RESERVE IN-USE PRESSURE SWITCH
PS2	RESERVE PRESSURE LOW PRESSURE SWITCH

M15_CONT02

FLOW SCHEMATIC-MEDICAL GAS CABINET

NTS