

ELECTRICAL SYSTEM NOTES:

- E1. THIS DRAWING IS BASED UPON THE LATEST COMMERCIAL REQUIREMENTS.
- E2. ALL CLEANING AND TESTING SHALL BE DONE PER NAVSEA APPROVED PROCEDURES.
- E3. THE PURPOSE OF THE ELECTRICAL DRAWINGS IS TO SHOW THE POWER, LIGHTING, AND COMMUNICATION SYSTEMS OF THE RECOMPRESSION CHAMBER.
- E4. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH DOD-STD-2003 (NAVY) ELECTRIC PLANT INSTALLATIONS STANDARD METHODS.
- E5. ALL ABBREVIATIONS ARE PER MIL-STD-120.
- E6. ALL EQUIPMENT AND CABLE SHALL BE BONDED TO GROUND IN ACCORDANCE WITH MIL-STD-1310E (NAVY).
- E7. ALL NEW ELECTRICAL CABLE IS SHOWN AS SOLID LINES. PREWIRED CONNECTIONS INSIDE COMPONENTS ARE SHOWN AS DASHED LINES.
- E8. CABLE LENGTHS ARE APPROXIMATE. ACTUAL LENGTHS AND ROUTING SHALL BE DETERMINED AT THE TIME OF INSTALLATION.
- E9. THE INSTALLING ACTIVITY OR CONTRACTOR IS TO DETERMINE THE QUANTITY AND SIZE OF WIRING AND IS TO PROVIDE THE NECESSARY MOUNTING HARDWARE (STUFFING TUBES, NUTS AND BOLTS, MOUNTING BRACKETS, ETC.) REQUIRED FOR INSTALLATION OF CABLE AND/OR ELECTRICAL EQUIPMENT SHOWN HEREON, UNLESS OTHERWISE PROVIDED IN THE LIST OF MATERIAL.

- E10. TEMPLATE MOUNTING BOLT AND STUD LOCATIONS FROM EQUIPMENT TO BE MOUNTED INSIDE THE CHAMBER AND IN/ON THE CHAMBER CONTROL PANEL.
- E11. THE THIRD CONNECTION FOR ALL POWER CABLES OF ALL SINGLE-PHASE ELECTRICAL EQUIPMENT SHALL BE USED AS A SAFETY GROUND.
- E12. ALL ELECTRICAL PENETRATIONS THROUGH THE CHAMBER SHALL BE MADE VIA EXISTING PENETRATIONS.
- E13. ALL WIRING INSIDE THE CHAMBER FOR THE CO2 SCRUBBER AND THE INTERNAL CHAMBER CONDITIONING UNIT SHALL BE MANUFACTURERS PROVIDED CABLE AND CONNECTORS AND SHALL BE NON-FLAMMABLE, NON-TOXIC AND LOW SMOKE.
- E14. CONTROL PANEL COMPONENT ARRANGEMENT MUST BE INSTALLED AS SHOWN TO ALLOW FOR CABLE LENGTH LIMITATIONS OF CHAMBER WIRING HARNESS (ITEM E-17).
- E15. HEAT SHRINK TUBING SHALL BE PROVIDED BY INSTALLING ACTIVITY TO COVER ANY EXPOSED CONNECTIONS BEHIND THE CONTROL PANEL WHERE SHOCK HAZARD IS PRESENT.
- E16. CHAMBER PIPELITES SHALL BE MOUNTED IN EXISTING PIPELITE PENETRATOR LOCATIONS USING THE THREADLESS SMOOTH BORE PENETRATION APPLICATION WITH CHAMBER PENETRATOR ADAPTERS.
- E17. ALL EQUIPMENT AND CABLE SHALL BE CHECKED FOR GROUNDS USING A HIGH IMPEDANCE OHMMETER OR MEGGER. ANY GROUNDED CONDUCTORS (OTHER THAN SAFETY GROUND) SHALL BE CORRECTED PRIOR TO ENERGIZING 120V LIGHTING AND POWER CIRCUITS.

- E18. CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED IN A TRACEABLE AND AUDITABLE MANNER AS OBJECTIVE QUALITY EVIDENCE CERTIFYING SPECIFIC LIKE OR COMMERCIALY PROVIDED MATERIAL MEETS OR EXCEEDS THE APPLICABLE REQUIREMENTS CALLED OUT ON THESE DRAWINGS.
- E19. LABELS SHALL BE ENGRAVED PLASTIC STICK-ON TYPE. THEY SHALL BE YELLOW BACKGROUND WITH BLACK LETTERS.
- E20.  MODIFY OXYGEN MONITOR SENSOR PROBE CAP PER DETAIL C-4 ON SHEET 15.
- E21. VERIFY, BY OPERATIONAL CHECK, THAT ALL ELECTRICAL COMPONENTS AND CABLES HAVE BEEN PROPERLY CHECKED FOR CONTINUITY, AND THAT ALL CABLE AND EQUIPMENT ARE OPERATING SATISFACTORILY. TESTING OF ELECTRICAL SYSTEM INSTALLATIONS IS ACCOMPLISHED BY THAT SYSTEM'S INSTALLATION DRAWING.
- E22. THE SOUND POWERED PHONE CIRCUITS SHALL BE ABLE TO TRANSMIT AND RECIEVE PROPERLY. VOICE COMMUNICATION SHALL BE CLEAR, DISTINCT AND HAVE SUFFICIENT VOLUME TO BE AUDIBLE ABOVE ENVIRONMENTAL NOISES.

ELECTRICAL SYSTEM
LIST OF MATERIAL - QUANTITIES FOR ONE SHIP ONLY

ITEM NO	QTY	DESCRIPTION	MATERIAL SPEC	MTL REQ	NSN OR MFGR PART NO	SCE	APL NO	UNIT WT	REMARKS	O-RINGS
E-1	1	GROUND FAULT ISOLATOR	COML		9201-SGFI			5	AMRON MODEL 9201-SGFI	
E-2	1	NEMA 4 ELECTRICAL ENCLOSURE BOX	COML	FIBERGLASS	7583K22			.5	MCMaster CARR	
E-3	1	BACK PANEL INSERT	COML	ALUMINUM	6917K11			-	MCMaster CARR	
E-4	3	TERMINAL STRIP, 8T	COML					-	RADIO SHACK MOUNT EACH TO ITEM 3	
E-5	1	POWER SUPPLY, 24VDC	COML		A24H1200			4	ACOPIAN	
E-6	1	THERMOMETER	COML		MODEL 3129			1	AMRON INTERNATIONAL	
E-7	1	CHAMBER COMMUNICATOR	COML		2820-4003			13	AMRON INTERNATIONAL	
E-8	2	HEADSET (INSIDE CHAMBER) W/PLUG	COML		2401-31R			.5	AMRON INTERNATIONAL	
E-9	1	HEADSET (OUTSIDE CHAMBER) W/PLUG	COML		2401-28			.5	AMRON INTERNATIONAL	
E-10	3	PIPELITE SOURCE	COML		HYL-250-LS			2	J.M. CANTY-SMOOTH BORE HULL PENETRATION (C679-3)	
E-11	1	PIPELITE SYSTEM TRANSFORMER	COML		HYL-250-3T			2.5	J.M. CANTY-SMOOTH BORE HULL PENETRATION (C679-3)	
E-12	1	PIPELITE CONTROLLER	COML		HYL-250-3C				J.M. CANTY-SMOOTH BORE HULL PENETRATION (C679-3)	
E-13	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-14	1	COMMUNICATION BOX (INNER LOCK)	COML		MODEL 3125			1	AMRON INTERNATIONAL	
E-15	1	COMMUNICATION BOX (OUTER LOCK)	COML		MODEL 3126			1	AMRON INTERNATIONAL	
E-16	2	ELECTRICAL JUNCTION BOX (OUTSIDE CHAMBER)	COML		MODEL 3127			1	AMRON INTERNATIONAL	
E-17	1	CHAMBER WIRING HARNESS	COML		MODEL 3128			2	AMRON INTERNATIONAL	
E-18	1	INTERNAL CONDITIONING UNIT	COML		9100-ICS				AMRON INTERNATIONAL	
E-19	2	FUSE, CARTRIDGE, 10 AMP, 250 VOLT FAST ACTING	COML		5920-00-855-4261			-	BUSS OR EQUAL	
E-20	1	CO2 SCRUBBER			5000-2AS				AQUA BREEZE	
E-21	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-22	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-23	2	1/2" HOLLOW BOLT PENETRATOR		SS					SEE DETAIL B-1, SH 24	
E-24	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-25	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-26	-	NOT USED	NOT USED		NOT USED				NOT USED	
E-27	50 FT	CABLE, LSTSGU-3	COML		6145-01-201-9497			.109/FT		
E-28	1	OXYGEN MONITOR	COML		320B			-	TELEDYNE W\B-1 SENSOR	
E-29	1	CO2 MONITOR	COML		5000-USN			-	ANALOX	