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MILITARY STANDARD

SUPPORT EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES

AMSC 82-008

FSC MISC

Department of Defense

Washington, DC 20301

Support Equipment
Functional Classification Categories

MIL-STD-864

1. This Military Standard is approved for use by all departments and agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to HQ AFLC CASO/LODS, Federal Center, Battle Creek, MI 49016 by letter or by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document.

CONTENTS

1. SCOPE:

1.1 GENERAL. This standard was established to provide Government personnel and contractors with a means of comparing Support Equipment and Mission Equipment according to functional and technical characteristics.

1.2 APPLICATION. This standard provides the information for functionally categorizing and indexing of Support Equipment Illustrations (SEIs) in MIL-HDBK-300, Technical Information File and AFLC/AFSC Form 6 in the Air Force Standard/Preferred Item List (AFS/PIL). Instructions for preparation of SEIs are given in Data Item Description (DID) DI-E-6120. Instructions for preparation of AFLC/AFSC Form 6 are prescribed in AFSC/AFLCR 800-31 and on the reverse side of the form.

2. REFERENCED DOCUMENTS:

2.1 ISSUES OF DOCUMENTS. The following documents of the issue in effect on the date of invitation for bid or request for proposal form a part of this standard to the extent specified herein.

Handbook	Technical Information File on Support
MIL-HDBK-300	Equipment
Data Item	Support Equipment Illustrations
DID-DI-E-6120	

Publication Air Force Standard/Preferred Item List (Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procurement activity or as directed by the contracting officer.)

3. DEFINITIONS:

3.1 EQUIPMENT. A major subdivision of a weapon system or subsystem that performs a function impacting the operational capability and readiness of the weapon system/subsystem. It is grouped into two general categories, that is, Mission Equipment and Support Equipment. Equipment does not denote bitpart pieces or component elements that comprise an equipment entity. Management flexibility and the widely varying complexity and nature of programs dictate that the term equipment be given only a general meaning.

3.1.1 MISSION EQUIPMENT. Any item which is a functional part of a system or subsystem and is required to perform mission operations. It includes such items as missile launching mechanisms, engines, constant speed drives, munitions, pylons, command and control displays, radar sets, and aircraft radios.

3.1.2 SUPPORT EQUIPMENT. Refers to all equipment required to make or keep a system or subsystem operational in its

intended environment. It includes such items as aircraft tow bars, tools, test equipment, automatic test equipment, ground power carts, munition loaders and trailers, as well as organization, field, and depot level Support Equipment.

4. GENERAL REQUIREMENTS:

4.1 FUNCTIONAL CLASSIFICATION INDEX. The functional classification index provides the user a means by which equipment can be functionally categorized to provide a homogeneous grouping of items for publication in MIL-HDBK-300 and the AFS/PIL.

4.2 EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES. The list of equipment identification characteristics will be used to assist in developing the Functional Description and Technical Description of the item as prescribed by Data Item, DI-E-6120.

5. DETAILED REQUIREMENTS:

5.1 LIST OF EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES

Group AA - Measuring, Testing, Adjusting, and Indicating

Group BB - Signal and Power Generating, Supplying, Storing, and Converting (Excludes Transducers)

Group CC - Communicating, Signaling, and Lighting

Group DD - Engine and Missile System Checkout and Testing

Group EE - Gas and Liquid Processing, Storing, and Shipping

Group FF - Personnel and Solid Material Protection

Group GG - Maintenance and Servicing

Group HH - Handling, Moving, Stopping, Propelling, and Landing of Aircraft Equipment and Solid Material

Group JJ - Heating, Cooling, Ventilating, Humidity Control, Pressurizing, and Filtering

Group KK - Fire Fighting, Rescue, and Survival

Group LL - Training and Simulating

Group MM - Detecting, Ranging, and Fire Control

Group NN - Demolition and Destruction

Group OO - Flight Control and Navigation

Group PP - Ignition Systems

Group QQ - Photographic

Group RR - Data Processing and Storing

5.2 LIST OF EQUIPMENT FUNCTIONAL CLASSIFICATION INDEX

AA. MEASURING, TESTING, AND ADJUSTING

AA-1 Voltage, Current, and Resistance Measuring and Indicating

AA-1.1 Voltage Measuring

AA-1.2 Current Measuring

AA-1.3 Resistance Measuring and Voltage Leakage, Short Circuit, Continuity, and Cable Testing

AA-1.4 Multimeters

AA-2 Standing Wave Ratio and Impedance Measuring

AA-2.1 Standing Wave Ratio

AA-2.2 Impedance and Related Parameter Measuring

AA-2.3 Combined Standing Wave Ratio and Impedance Measuring

AA-3 Waveform Measuring and Analyzing

AA-3.1 Oscillographs

AA-3.2 Oscilloscopes and Synchroscopes

AA-3.3 Waveform and Spectrum Analyzing

AA-4 Power and Mechanical Energy Measuring

AA-4.1 Electrical (Cabled) Power Measuring (Includes metered loads)

AA-4.2 Radiated (Noncabled) Power Measuring

AA-4.3 Combined Radiated and Nonradiated Power Measuring

AA-4.4 Mechanical Power Measuring

AA-5 Intensity Measuring

AA-5.1 Mechanical Force Measuring

AA-5.2 Motion, Displacement, and Impact Detecting and Measuring

AA-5.3 Sound Measuring

AA-5.4 Electrical Field Detecting and Measuring

AA-5.5 Electromagnetic Field Detecting and Measuring

AA-5.6 Magnetic Field Detecting and Measuring

AA-5.7 Infrared Radiation and Temperature Detecting and Measuring

AA-5.8 Visible Radiation (Light) Measuring

AA-5.9 Ultraviolet Radiation Detecting and Measuring

AA-5.10 X-Radiation Detecting and Measuring

AA-5.11 Nuclear Radiation Detecting and Measuring

AA-5.12 Multifunction Detecting and Intensity Measuring

AA-6 Acceleration, Velocity, Rate, Frequency, and Time Measuring and Counting

- AA-6.1 Acceleration Measuring
- AA-6.2 Velocity, Rate, and Mechanical Frequency Measuring
- AA-6.3 Electrical Frequency Measuring and Indicating
- AA-6.4 Mechanical Counting
- AA-6.5 Electrical Counting
- AA-6.6 Reference Time Measuring
- AA-6.7 Elapsed (Cumulative) Time Measuring
- AA-6.8 Duration Measuring
- AA-6.9 Interval Measuring (Chronoscopes)
- AA-6.10 Multifunction Time Measuring

AA-7 Optical Measuring, Testing, and Aligning

- AA-7.1 Collimation and Similar Optical Measuring
- AA-7.2 Spectroscopic and Spectrographic Testing
- AA-7.3 Microscopic Testing
- AA-7.4 Photographic Measuring and Testing

AA-8 Material Measuring and Testing

- AA-8.1 Physical Dimension Measuring
- AA-8.2 Weight, Density, and Specific Gravity Measuring

AA-8.3 Volume Measuring

AA-8.4 Pressure Measuring

AA-8.5 Moisture Content Measuring

AA-8.6 Hardness Measuring

AA-8.7 Stress and Strain Measuring

AA-8.8 Tension and Compression Measuring and Testing

AA-8.9 Static and Dynamic Balance Measuring

AA-8.10 Friction Measuring

AA-8.11 Color, Luster, and Reflectance Measuring and Testing

AA-8.12 Contamination and Surface Irregularity (Fluorescent) and Similar Testing

AA-8.13 Vibration and Acceleration (Shock) Testing

AA-8.14 Breakdown Testing

AA-8.15 Solid Analysis

AA-8.16 Liquid Analysis

AA-8.17 Gas Analysis

AA-9 Multifunction Measuring and Testing (Excludes Engines and Missile Systems, but includes most test sets)

AA-9.1 Combined General Purpose Functional Testing

AA-9.2 General Electronic, Electrical, Mechanical, and Hydraulic System Testing

AA-9.3 Subsystem and Component Testing

AA-9.4 Assembly and Subassembly Testing

AA-9.5 Circuit Board and Circuit Card Testing

AA-9.6 Part (Electron Tube, Semiconductor, Relay, Selsyn, Synchro, etc.) Testing

AA-10 Standards and Calibration Equipment for Measuring and Testing

AA-10.1 Calibration Equipment for Voltage, Current, and Resistance Measuring Devices

AA-10.2 Calibration Equipment for SWR, Impedance, and Related Parameter Devices

AA-10.3 Calibration Equipment for Waveform Measuring and Analyzing Devices

AA-10.4 Calibration Equipment for Power and Mechanical Energy Measuring Devices

AA-10.5 Calibration Equipment for Intensity Measuring Devices

AA-10.6 Calibration Equipment for Velocity, Frequency, and Time Measuring Devices and Similar Devices

AA-10.7 Calibration Equipment for Optical Devices

AA-10.8 Calibration Equipment for Material Measuring and Testing Devices

AA-10.9 Calibration Equipment for Multifunction Measuring and Testing Devices

AA-10.10 Multipurpose and General Purpose Standards

AA-11 Active Devices for Test Purposes (Excludes Most Test Sets)

AA-11.1 Transducers

AA-11.2 Active Filters

AA-11.3 Active Mixers and Modulators

AA-11.4 Active Coupling, Matching and Distribution Devices

AA-11.5 Test Amplifiers

AA-11.6 Active Terminations and Dummy Loads

AA-11.7 Active Delay Devices

AA-11.8 Active Matching Devices

AA-12 Passive Devices for Test Purposes (Excludes Most Test Sets)

AA-12.1 Variable Resistors and Unqualified Variable Attenuators (Series Type)

AA-12.2 Variable Capacitors (Series Type)

AA-12.3 Variable Inductances (Series Type)

AA-12.4 Passive (Cabled) Electrical Couplings Matching and Distribution Devices (Includes fixed attenuators and most voltage dividers and probes)

AA-12.5 Passive (Noncabled) Electromagnetic and Electrostatic Coupling, Matching and Distribution Devices (Includes inductive voltage dividers and probes)

AA-12.6 Mounting Devices and Passive Mechanical Coupling Devices

AA-12.7 Passive Filters (Excludes Probes)

AA-12.8 Passive Delay Devices

AA-12.9 Passive, Non-Power Measuring Terminations and Dummy Loads

AA-12.10 Passive Mixers, Modulators, and Detectors (Excludes Probes)

AA-13 Nondestructive Inspection and Oil Analysis

AA-13.1 Fluorescent Penetrant

AA-13.2 Magnetic Particle

AA-13.3 X-Ray

AA-13.4 Ultrasonic

AA-13.5 Eddy Current

AA-13.6 Oil Analysis

AA-13.7 Accoustic Emission

BB. SIGNAL AND POWER GENERATING, SUPPLYING, STORING AND CONVERTING (EXCLUDES TRANSDUCERS)

BB-1 Signal Generating

BB-1.1 Signal Generators and Oscillators (Includes am/fm, pulse-modulated, audio, sweep, etc., types)

BB-1.2 Complex Wave Generators (Includes pulse, square-wave, triangular-wave, sawtooth, etc., types)

BB-1.3 Random Function Generators (Includes random noise and noise generators)

BB-1.4 Waveform Synthesizers

BB-1.5 Multifunction and Special Purpose Signal Generators

BB-2 Electrical Power Supplying, Generating, Storing, and Converting

BB-2.1 Electrical Generators, Converters, Inventers, and Dynamotors

BB-2.2 Electrical Power Supplies and Battery Chargers

BB-2.3 Transformers and Electrical Distribution Networks

BB-3 Mechanical, Hydraulic, Pneumatic, and Vacuum Power Supplying, Storing and Converting

BB-3.1 Mechanical Power Supplying, Storing and Converting (Includes motors, turbines, etc.)

BB-3.2 General Purpose Compressing and Pumping

BB-3.3 Hydraulic and Pneumatic Power and Vacuum Generating and Storing

BB-3.4 Multifunction and Special Purpose Mechanical, Hydraulic, Pneumatic, and Vacuum Devices (Includes those which also supply power)

CC. COMMUNICATING, SIGNALING, AND LIGHTING

CC-1 Communicating (Excludes headsets, loudspeakers, etc.)

CC-1.1 Intercommunication Systems

CC-1.2 Public Address Systems

CC-1.3 Nonairborne Multifunction and Special Purpose Communicating Devices

CC-1.4 Airborne Multifunction and Special Purpose Communicating Devices

CC-2 Signaling

CC-2.1 Signal Lights

CC-2.2 Mechanical Signaling Devices

CC-2.3 Special Purpose Signaling Devices

CC-3 Lighting

CC-3.1 Area Lighting

CC-3.2 Search Lighting

CC-3.3 Marking and Identification Lighting

CC-3.4 Special Purpose Lighting

DD. ENGINE AND MISSILE SYSTEM CHECKOUT AND TESTING

DD-1 Engine Checkout and Testing

DD-1.1 Automotive Engine Testing

DD-1.2 Aircraft Engine Testing

DD-1.3 Missile Engine Testing

DD-1.4 General and Special Purpose Engine Testing

DD-2 Missile System Checkout and Testing

DD-2.1 Missile Guidance System Checkout

DD-2.2 Missile Target or Flight Programming System Checkout

DD-2.3 Missile Telemetering and Tracking System Checkout

DD-2.4 Missile Hydraulic and Pneumatic System Checkout

DD-2.5 Missile Fuel System Checkout

DD-2.6 Miscellaneous Missile System Checkout and Testing

DD-2.7 Missile Countdown Equipment

EE. GAS AND LIQUID SUPPLYING, PROCESSING, STORING AND SHIPPING

EE-1 Gas Storage, Processing, Supplying and Shipping

EE-1.1 Gas Storage Containers

EE-1.2 Gas Storage, Processing, Supplying and Shipping Equipment and Vehicles

EE-1.3 Multipurpose and Special Purpose Gas Handling Equipment

EE-2 Liquid Storage, Processing, Supplying and Shipping

EE-2.1 Liquid Storage Containers

EE-2.2 Liquid Storage, Processing, Supplying and Shipping

EE-2.3 Special Purpose and Multipurpose Liquid Handling Equipment

FF. PERSONNEL AND SOLID MATERIAL PROTECTION

FF-1 Shelters and Chambers

FF-1.1 Personnel Shelters

FF-1.2 Maintenance Shelters

FF-1.3 Test Chambers and Test Shelters

FF-1.4 Special Purpose and Multipurpose Shelters and Chambers

FF-2 Protective Deflectors, Shields, Screens and Coverings

FF-2.1 Deflectors, Shields, and Screens

FF-2.2 Protective Coverings

FF-2.3 Miscellaneous Protective Equipment

FF-3 Supports for Storing and Shipping

FF-4 Special Purpose and Multipurpose Devices

FF-5 Flight Clothing and Accessories

GG. MAINTENANCE AND SERVICING

GG-1 General Mechanical Cleaning, Degreasing and Scaling

GG-1.1 Pressure and Vacuum Cleaners

GG-1.2 Spray Cleaners and Degreasers

GG-1.3 Scaler

GG-1.4 Special Purpose and Multipurpose Cleaning Devices

GG-2 Deicing and Decontaminating

GG-2.1 Deicing

GG-2.2 Decontaminating

GG-3 Road and Runway Cleaning and Repairing

GG-3.1 Road and Runway Cleaning

GG-3.2 Road and Runway Repairing

GG-3.3 Combination and Special Purpose Road and Runway Cleaning and Repairing and Associated Devices

GG-4 Lubricating

GG-4.1 Oiling Equipment

GG-4.2 Greasing Equipment

GG-4.3 Combination Oiling and Greasing Equipment

GG-4.4 Special Purpose Lubricating Equipment

GG-5 Wheel, Tire and Mechanical System Servicing

GG-5.1 Wheel and Tire Servicing

GG-5.2 Brake System Servicing

GG-5.3 Hydraulic System Servicing

GG-5.4 Pneumatic System Servicing

GG-5.5 Special Purpose and Multipurpose Mechanical System Servicing

GG-6 Special Purpose and Multipurpose Servicing

GG-7 Maintenance Platforms, Stands, Supports and Accessories

GG-7.1 Maintenance Platforms and Stands for Personnel

GG-7.2 Equipment Supports

GG-7.3 Weapon and Special Purpose Supports

GG-7.4 Maintenance Accessories

HH. HANDLING, MOVING, STOPPING, PROPELLING, AND LANDING OF AIRCRAFT EQUIPMENT AND SOLID MATERIAL

HH-1 Hoisting, Jacking, Lifting, Towing, and Positioning

HH-1.1 Hoisting and Lifting

HH-1.2 Jacking

HH-1.3 Erecting

HH-1.4 Towing

HH-1.5 Special Purpose and Multipurpose Lifting and Positioning Equipment

HH-2 Transporting of Equipment and Solid Material

HH-2.1 Powered Trucks and Tractors

HH-2.2 Hand Trucks, Carts, and Dollies

HH-2.3 Trailers

HH-2.4 Special Purpose and Multipurpose Transporting Vehicles and Devices

HH-2.5 Accessory Equipment for Transporting

HH-2.6 Delivery and Recovery Systems

HH-2.7 Tires and Tubes

HH-3 Launching

HH-3.1 Aircraft Launching

HH-3.2 Guided Missile Launching

HH-3.3 Rocket Launching

HH-3.4 Space Vehicle Launching

HH-3.5 Special Purpose and Multipurpose Launching Equipment

HH-4 Arresting, Parking, and Securing

HH-4.1 Auxiliary Braking

HH-4.2 Emergency Braking and Arresting

HH-4.3 Securing (Chocking, Locking, etc.)

HH-4.4 Parking and Similar Storing

HH-5 Special Purpose and Multipurpose Handling and

Moving (Includes combined lifting and moving vehicles and equipment)

HH-6 Propulsion System

HH-6.1 Rocket Engines, Motors and Hybrids

HH-6.2 Reciprocating Engines

HH-6.3 Turbine Engines

HH-6.4 Miscellaneous Engines and Components

JJ HEATING, COOLING, VENTILATING, HUMIDITY CONTROL, PRESSURIZING AND FILTERING

JJ-1 Heating

JJ-1.1 Area Heating

JJ-1.2 Equipment Heating

JJ-1.3 Special Purpose and Multipurpose Heating Equipment

JJ-2 Air Cooling and Air Conditioning

JJ-2.1 Air Cooling and Air Conditioning

JJ-2.2 Special Purpose and Multipurpose Cooling Equipment

JJ-3 Ventilating and Air Circulating

JJ-3.1 Ventilating and Air Circulating

JJ-3.2 Special Purpose and Multipurpose Ventilating and Air Conditioning Equipment

JJ-4 Humidity Controlling

JJ-4.1 Humidity Reducing

JJ-4.2 Humidity Increasing

JJ-4.3 Constant-Humidity Equipment

JJ-4.4 Special Purpose and Multipurpose Humidity-Controlling Equipment

JJ-5 Refrigerating

JJ-5.1 General Purpose Refrigerating Equipment

JJ-5.2 Special Purpose and Multipurpose Pressurizing Equipment

JJ-6 Multipurpose and Special Purpose Heating, Cooling, Ventilating and Humidity Control Equipment

JJ-7 Pressurizing

JJ-7.1 Compartment Pressurizing

JJ-7.2 Special Purpose and Multipurpose Pressurizing Equipment

JJ-8 Water Cooling

JJ-8.1 Engine Cooling Systems and Components

JJ-8.2 Special Purpose and Multipurpose Water Cooling Equipment

JJ-9 Filtering

JJ-9.1 Pneumatic Filtering

JJ-9.2 Liquid Filtering

JJ-9.3 Special Purpose and Multipurpose Filtering Equipment

KK. FIRE FIGHTING, RESCUE AND SURVIVAL

KK-1 Fire Fighting, Crash and Rescue Equipment

KK-1.1 Fire Fighting Equipment

KK-1.2 Crash Equipment

KK-1.3 Rescue Equipment

KK-1.4 Special Purpose and Multipurpose Fire Fighting, Crash and Rescue Equipment

KK-2 Survival Equipment and Devices

KK-2.1 Survival Tools and Accessories

KK-2.2 Survival Vehicles

KK-2.3 Special Purpose and Multipurpose Survival Items

LL. TRAINING AND SIMULATING

LL-1 Pilot and Flight Crew Flight Simulators

LL-1.1 Basic Flight Simulator Trainers

LL-1.2 Advanced Flight Simulator Trainers

LL-1.3 Instrument Flight Trainers

LL-1.4 Mobile Training Units

LL-2 Ground Crew Training Flight Simulators

LL-2.1 Flight Principle Trainers

LL-2.2 Flight Control, Navigation and Warning-Indicator Instrument Systems Trainers

LL-2.3 Mechanical System Trainers

LL-2.4 Electrical System Trainers

LL-2.5 Engine Operation and Maintenance Trainers

LL-2.6 Aircraft Servicing Equipment Trainers

LL-2.7 Mobile Training Units

LL-3 Armament Trainers

LL-3.1 Stationary Airborne Gunnery Trainers

LL-3.2 Free Airborne Gunnery Trainers

LL-3.3 Airborne Rocketry Trainers

LL-3.4 High Altitude Bombing Trainers

LL-3.5 Ground Support Bombing Trainers

LL-3.6 Armament Components Trainers

LL-3.7 Multipurpose Armament Trainers

LL-3.8 Mobile Training Units

LL-4 Navigation Trainers

LL-4.1 Dead-Reckoning Navigation Trainers

LL-4.2 Celestial Navigations Trainers

LL-4.3 Electronic Navigation Trainers

LL-4.4 Crew Navigation Trainers

LL-4.5 Mobile Training Units

LL-4.6 Aerospace Navigations Training Units

LL-5 Radar and Communications Trainers

LL-5.1 Primary Communications Equipment Trainers

LL-5.2 Advanced Communications Equipment Trainers

LL-5.3 Primary Radar Equipment Trainers

LL-5.4 Advanced Radar Equipment Trainers

LL-5.5 Radar Countermeasurers Trainers

LL-6 Psychological and Psycho-physiological Trainers

LL-6.1 Low Pressure Chambers

LL-6.2 Ejection Seat Trainers

LL-6.3 "Dilbert Dunker" and Other Survival Procedures

LL-6.4 Space Environment Trainers

LL-6.5 Vertigo Simulator Trainers

LL-7 Ground-to-Ground and Ground-to-Air Missile Trainers

LL-7.1 Ground Crew, Missile Operation, and Maintenance Trainers

LL-7.2 Launch Control Equipment Trainers

LL-7.3 Flight Control Equipment Trainers

LL-8 Special Project Trainers

LL-8.1 Synthetic Warfare Tactics Trainers

LL-8.2 Combat Information Centers (CIC) Equipment Trainers

LL-9 Training Aids

LL-9.1 Charts and Posters

LL-9.2 Maneuvering Boards and Demonstrator Panels

LL-9.3 Self-Instruction Cards

LL-9.4 Training Manuals

LL-9.5 Three-Dimensional Models

LL-9.6 Audio-Visual Training Devices (Projectors and sound recorders and reproducers)

LL-9.7 Training Films and Recordings

LL-9.8 Miscellaneous Classroom Teaching Aids

LL-10 Command Training Programs (Tangible Items)

LL-10.1 Service-School Training Programs

LL-10.2 Activity Training Programs

LL-11 Miscellaneous Training and Simulating Devices

LL-11.1 Automotive Training Devices

LL-11.2 Airfield Training Devices

LL-11.3 Simulators for Material Testing

LL-11.4 Hydraulic, Pneumatic, Oxygen, Fuel, Oil, etc.

LL-11.5 Dummy Guided Missiles

LL-11.6 Simulated Bombs for Test and Training Purposes

LL-11.7 Training Dummy or Practice Warhead

LL-11.8 Aircraft Simulated Rockets

MM. DETECTING, RANGING, AND FIRE CONTROL

MM-1 Detecting, Range Bearing and Search

MM-1.1 Transmitting and Receiving

MM-1.2 Designating, Indicating, and Locating

MM-2 Directing

MM-2.1 Computing Sights and Devices

MM-2.2 Optical Sighting and Ranging

MM-2.3 Stabilizing Mechanisms

MM-2.4 Transmitting and Receiving

MM-3 Miscellaneous Fire Control (Includes fuse setters, ordnance cable systems, aiming circles, flash and sound ranging sets)

NN. DEMOLITION AND DESTRUCTION (INCLUDES COMBAT WEAPONS AND AMMUNITION)

NN-1 Guns

NN-1.1 Aircraft Guns

NN-1.2 Nonaircraft Guns

NN-1.3 Gun Related Items (Includes ammunition feeders, loaders, storage drums, etc.)

NN-2 Ammunition

NN-2.1 Dummy or blank

NN-2.2 Tracer Projectiles

NN-2.3 Live or Special Purpose

NN-3 Bombs, Rockets, and Missiles

NN-3.1 Photo Flashing

NN-3.2 Chemical Warfare

NN-3.3 General Purpose

NN-3.4 Practice

NN-3.5 Guided or Drones

NN-3.6 Warheads and Explosive Components

OO. FLIGHT CONTROL AND NAVIGATION

OO-1 Automatic Flight or Remote Control

OO-1.1 Guided Missiles

OO-1.2 Space Vehicles

OO-1.3 Aircraft

OO-2 Navigation

OO-2.1 Nonairborne Direction Finding Equipment

OO-2.2 Airborne Direction Finding Equipment

PP. IGNITION SYSTEMS

PP-1 Engine Ignition System

PP-1.1 Nonaircraft Engine Ignition

PP-1.2 Aircraft Engine Ignition

PP-2 Special Purpose and Multipurpose Ignition Systems

QQ. PHOTOGRAPHIC

QQ-1 Picture Taking Equipment

QQ-1.1 Strike Recording

QQ-1.2 Aerial Mapping

QQ-1.3 Still Picture

QQ-1.4 Motion Picture

QQ-2 Picture Processing Equipment

QQ-2.1 Processing Mechanisms

QQ-2.2 Developers

QQ-2.3 Washers

QQ-2.4 Driers

QQ-3 Picture Using Equipment

QQ-3.1 Still Projectors

QQ-3.2 Motion Picture Projectors

QQ-3.3 Viewing Devices

RR. DATA PROCESSING AND STORING

RR-1 Analog Computing

RR-2 Digital Computing

RR-3 Hybrid Computing

RR-4 Input/Output and Storage

RR-5 Collating, Reading, and Interpreting

RR-6 Special Purpose and Multipurpose Data Processing Equipment

5.3 LIST OF EQUIPMENT IDENTIFICATION CHARACTERISTICS

AA-1- VOLTAGE, CURRENT, AND RESISTANCE MEASURING AND INDICATING

INPUT CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Frequency Range and Response
Voltage Type and Range
Probe Data
Meter Size

Current Type and Range
Resistance Range
Decibel Range
Input Impedance and/or Sensitivity
Output Impedance
Meter Movement
Accuracy
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-2- STANDING WAVE RATIO AND IMPEDANCE MEASURING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Frequency Range
Maximum Reflected Power
Voltage Range
Current Range
Resistance Range
Impedance Range
Reactance Range
Inductance Range
Capacitance Range
Power Factor Range
Phase Angle Range
Input Signal Level
Selectivity
Sensitivity
Vernier Scale

OUTPUT AND OPERATIONAL CHARACTERISTICS

Accuracy
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-3- WAVEFORM MEASURING AND ANALYZING

INPUT POWER CHARACTERISTICS

Voltage
Frequency

Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Indicator

X-(Horizontal Axis) Data*
Sensitivity
Frequency Range and Response
Input Impedance
Attenuation
Rise Time
Distortion
Sweep Type(s)
Sweep Frequency
Sweep Duration
Sweep Repetition Rate
Sweep Calibration and Accuracy
Sweep Synchronization Type
Y-(Vertical) Axis Data*
Sensitivity
Frequency Range and Response
Input Impedance
Attenuation
Rise Time
Distortion

Z-Axis (Intensity Modulation) Data*
Sensitivity
Frequency Range and Response
Input Impedance
Attenuation
Rise Time
Distortion
Type of Output
Voltage Calibration Data
Acceleration Potential
Type of Deflection
Trace Persistence
Image Storage Duration
Writing Rate
Chart Data
Timing Markers
Presentation Aids
Photographic Provisions
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

(*NOTE: Described, as necessary, for a-c coupled, d-c coupled, and direct coupled conditions.)

AA-4- POWER AND MECHANICAL ENERGY MEASURING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic/ Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)

Power Range

Input Impedance and/or Sensitivity
Output Impedance

Torque Range
Reception Type
Voltage Type and Range
Current Type and Range
Decibel Range
Frequency Range
Speed Range
VSWR
Probe Data
Indicator Type
Meter Size
Meter Movement
Accuracy
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-5-INTENSITY MEASURING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Input Rating (Capacity)
Indicator Type
Meter Size
Meter Movement
Frequency Range and Response
Sensitivity
Selectivity
Accuracy
Recovery Rate
Type of Reception or Input
Receiver Type
Intermediate Frequency
Mechanical Force Range
Power Consumption
Mechanical/Pneumatic/Hydraulic/
Input Requirements
Displacement Range
Impact Range
Sound Intensity Range
Field Strength Range
Flux Density Range
Temperature Range
Radiation Detected
Radiation Range
Light Range
Probe/Sensor Data
Shielding Conditions
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-6-ACCELERATION, VELOCITY, RATE, FREQUENCY, AND TIME MEASURING AND COUNTING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)
Indicator Type
Meter Size
Meter Movement
Sensitivity
Selectivity
Accuracy
Duty Cycle
Spurious Response
VSWR
Loaded "Q"
Type of Reception or Input
Attenuation
Input Impedance
Output Impedance
Frequency Range
Time Range
Count Range
Velocity Range
RPM Range
Acceleration Range
Displacement Range
Voltage Range
Current Range
Synchronization Input Data
Trigger Input Data
Synchronization Output Data
Trigger Output Data
Reset Data
Reference Frequencies
Crystal
Interpolation Oscillator
Reference Frequencies
Audio
(Other)
R-F Output Voltage
Audio Output Voltage
Output Modulation
Flash Duration
Peak Light Intensity
Probe/Sensor Data
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-7-OPTICAL MEASURING, TESTING, AND ALIGNING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

(Description of Equipment Supplied, its Utilization and its Limitations)

NOTE: Due to the wide variety of optical equipments, it is not feasible to establish a pattern for the entire "Technical Description." (In many cases, even "INPUT POWER CHARACTERISTICS" is not applicable.) Existing technical descriptions will be reworked to ensure good presentation

and, where required, more complete descriptions of equipments will be requested from manufacturers.

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-8- MATERIEL MEASURING AND TESTING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)
Indicator Type
Meter Size
Meter Movement
Frequency Range
Pressure Range
Volume Range
Hardness Number Range
Humidity Range
Tension Range
Compression Range
Dimension-Indicating Range
Reflectance Range
Weight Range
Density Range
Specific-Gravity Range
Flow Rate Range
Special Ranges
Work Capacity
Balancing Speed
Vibration Time
Vibration Amplitude
Maximum Test Pressure
Maximum Test Voltage
Sensitivity
Selectivity
Accuracy
Input Impedance
Output Data
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-9- MULTIFUNCTION MEASURING AND TESTING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Types of Test Performed
Method of Testing
Type of Indication
Method of Connection to Test Item
Output Data
Test Connectors
Test Adapters and Holders
Number & Type of Test Points
Readout Devices
Input Devices
Computational Requirements

(Additional Characteristics Taken from Patterns AA-1 through AA-8 Shown as Required.)

OUTPUT AND OPERATIONAL CHARACTERISTICS

Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-10-STANDARDS AND CALIBRATION EQUIPMENT FOR MEASURING AND TESTERS

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)
Input Impedance
Sensitivity
Selectivity
Accuracy
Type of Indicator
Meter Type
Meter Movement
Internal Reference Type
Means for Calibration
Drift
Temperature Coefficient
Current Range
Power Range
Resistance Range
Capacitance Range
Inductance Range
Output Type
Output Impedance
Output Modulation
Output Voltage
Output Power
Output Signals
Type of Auxiliary/Supplementary Output
Equipment Supplied
Environmental Limitations
Voltage Range

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-11-ACTIVE DEVICES FOR TEST PURPOSES

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Power Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)
Input Impedance
Regulation
Attenuation
Insertion Loss
Gain/Amplification
Resistance
VSWR
Duty Cycle
Breakdown Voltage
Transducer Type
Means of Coupling
Sensitivity
Selectivity
Accuracy
Frequency Range and Response
Bandwidth
Number of Channels
Channel Separation
Mixing Ratio
Type of Indicator
Meter Type
Meter Movement
Means for Calibration
Voltage Range
Current Range
Resistance Range
Capacitance Range
Inductance Range
Delay Period
Output Type
Output Impedance
Output Voltage
Output Power
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

AA-12-PASSIVE DEVICES FOR TEST PURPOSES

OUTPUT AND OPERATIONAL CHARACTERISTICS

Input Rating (Capacity)
Input Impedance
Regulation
Attenuation
Insertion Loss
Resistance
Number of Channels
Channel Separation
Mixing Ratio
Type of Indicator
Meter Type
Meter Movement

VSWR
Duty Cycle
Breakdown Voltage
Means of Coupling
Sensitivity
Selectivity
Accuracy
Frequency Range and Response
Bandwidth
Environmental Limitations
Means for Calibration
Voltage Range
Current Range
Resistance Range
Capacitance Range
Inductance Range
Delay Period
Output Type
Output Impedance
Output Voltage
Equipment Supplied

BB-1-SIGNAL GENERATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Frequency Range
Frequency Stability
Pulse Repetition Frequency
Pulse Rise Time
Pulse Decay Time
Pulse Duration
Pulse Amplitude
Pulse Spacing
Number of Pulses Generated per Cycle
Output Type
Output Waveform
Output Voltage
Output Current
Output Power
Output Amplitude Stability
Output Impedance
Modulation Type
Modulation Frequency
Modulation Amplitude
Synchronization Input
Synchronization Output
Provisions for External Modulation
Trigger Input Required
Trigger Output
Marker Frequency
Marker Amplitude
Electrical Leakage
Distortion: (Type and Amplitude)
Harmonic Output
Hum Output
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

BB-2-ELECTRICAL POWER SUPPLYING, GENERATING, STORING, AND CONVERTING

INPUT POWER CHARACTERISTICS

Power Source (Type)
Power Source Rating
Voltage
Frequency
Phase
Power Consumption
Power Coupling Method
Mechanical/Pneumatic/Hydraulic
Input Requirements
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Voltage
Output Frequency
Output Phase
Output Power
Metering Provided
Chart Data
Shelf Life
Rated Ambient Temperature
Transient Recovery
Phase Balance
Permissible Overload
Engine Type
Rated Speed
Speed Regulation
Buss System Type
Output Circuits
Output Connections
Frame Type
Protective Devices and Features
Transportation Data
Output Voltage Regulation
Output Frequency Regulation
Ripple Voltage
Output Harmonic Content
Duty Cycle
Power Factor
Efficiency
Temperature Rise
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Light System Type
Equipment Supplied
Environmental Conditions

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

BB-3-MECHANICAL, HYDRAULIC, PNEUMATIC, AND VACUUM POWER SUPPLYING, STORING, AND CONVERTING

INPUT CHARACTERISTICS

Power Source (Type)
Power Source Rating
Voltage
Frequency
Power Coupling Method
Input Pressure Required
Input Volume Required
Fuel Type

Phase
Power Consumption
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Discharge Pressure
Discharge Volume
Discharge Temperature
Storage Volume
Storage Pressure
Loss During Storage
Output Connections
Motor Data
Turbine Data
Compressor Data
Pump Data
Output Regulation
Duty Cycle
Permissible Overload
Operating RPM
Back Pressure
Lubricant Type
Lubricant Capacity
System Filter Type
System Filter Size
Protective Devices and Features
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Transportation Data
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Equipment Supplied
Environment Limitations

CC-1-COMMUNICATING (EXCLUDES HEADSETS, LOUDSPEAKERS, ETC.)

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Frequency Range and Response
Power Output
Type of Signal
Type of Modulation
Output Stability
Number of Stations
Number of Channels
Range of Communications
Regulation Type
Method of Frequency Control
Type and Range of Indicators
Output Impedance
Power Output
Duty Output
System Protection
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

CC-2- SIGNALING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Illumination
Repetition Rate
Type of Coding
Luminous Rating
Signal Duration
Spectrum Range
Type of Detection
Range of Detection
Beam Spread
Type of Pyrotechnic
Type of Indicators
Size of Indicators
Number of Lights
Type of Light and Base
Fuel Type
Fuel Tank Capacity
Regulation Type
Power Output
Range of Rotation
Elevation Range
Duty Cycle
System Protection
Maximum Storage Period
Safety Features
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types of Quantities)

CC-3- LIGHTING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Illumination
Luminous Rating
Range of Visibility
Beam Spread
Type of Light and Base
Fuel Type
Fuel Tank Capacity
Duty Cycle

Range of Rotation
Elevation Range
Filter Type
Filter Color
Lens Data
Number of Lights
System Protection
Safety Features
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

DD-1- ENGINE CHECKOUT AND TESTING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Compression Range
Manifold Pressure Range
Operating Temperature
Vacuum Range
Dwell Time Range
Fuel Pressure Range
Combustion Efficiency Range
Operating Voltages
Regulation: (Manual or Automatic)
Coolant Pressure
Lubricant Pressure
Ignition Requirements
Type of Carburetion
Meter, Chart, or Scope Data
Sensitivity
Stability
Brake Horsepower
System Protection
Safety Features
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Operating Frequency Range
and Response

Receiving System
Transmitting System
Type of Fuel
Operating Pressure
Operating Temperature
Operating RPM
Operating Voltage
Discharge Volume
Hydraulic Pressure
Vacuum Range
Time Intervals
Regulation: (Manual or Automatic)
Type of Actuation
Combustion Efficiency
Elevation Range
Type of Separator Mechanism
Type of Antibacklash Provisions
Number of Reception Channels
Number of Transmission Channels
Type of Programming
Discharge Pressure
Type of Indication
Data Indicated
Data Recorded
Chart Data
Meter Data
Sequence of Events Timer Data
Frequency Indication Range
Voltage Range
Current Range
Power Range
Static Firing Position
Sensitivity
Stability
Selectivity
Malfunction Provisions
Standby Provisions
System Protection
Safety Features
Equipment Supplied
Environmental Limitations

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

EE-1- GAS STORAGE, PROCESSING, SUPPLYING, AND SHIPPING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Input
Number and Type of Cylinders or Sections
Volume of Cylinders or Sections
Vacuum Range
Discharge Pressure
Discharge Volume
Operating RPM
Operating Temperature Range
Method of Filtration
Method of Venting
Tie-Down Provisions
Lifting Provisions
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels

Method and Degree of Purification
Back Pressure
Type of Snubber
Regulation Type: (Manual or Automatic)
Duty Cycle
Method of Filling
Method of Purging
Method of Sealing
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Safety Features and Devices
Equipment Supplied
Environmental Limitations

EE-2- LIQUID STORAGE, PROCESSING, SUPPLYING, AND SHIPPING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Number and Type of Tanks/Compartments
Volume of Tanks/Compartments
Discharge Volume
Operating RPM
Operating Temperature Range
Method of Filtration
Method and Degree of Purification
Back Pressure
Type of Snubber
Regulation Type: (Manual/Automatic
Duty Cycle
Method of Filling
Method of Purging
Method of Sealing
Method of Venting
Types and Range of Indicators
Tie-Down Provisions
Lifting Provisions
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Safety Features and Devices
Equipment Supplied
Environmental Limitations

FF-1- SHELTERS AND CHAMBERS

Configuration
Method of Assembly
Assembly Time: Man Hours
Platform Required
Door Locations: (Internal)
Exit Locations

Capacity
Floor Space: square feet
Total Area: cubic feet
Personnel: (number)
Safe Load Factor
Life Expectancy
Safety Features
Foundation Data
Type of Foundation
Material Used
Method of Construction

Fabrication Data
Type of Design
Material Used
Material Requirements
Method of Construction
Framing Required
Number and Size of Doors
Layout
Number of Levels

Compartmentation Data
Facilities
Heating Data
Ventilation Data
Illumination Data
Electrical Outlet Data
Communications Circuits
Supplementary Characteristics
Tie Down Provisions
Leveling Provisions
Height Adjusting Mechanism Data
Head Clearance
Equipment Clearance
Loading and Unloading Facilities
Means of Transportation
External Connection Data
Equipment Supplied
Environmental Limitations

FF-2- PROTECTIVE DEFLECTORS, SHIELDS, SCREENS, COATINGS, COVERINGS, AND CLOTHING

Method of Application
Operational Use
Safety Features
Design Data
Type of Design
Material Used
Material Limitations

Countermeasures Used Against
Hazards Involved
Hazard Data
Type of Hazards Encountered
Maximum Protection Against
Minimum Protection Against
Life Expectancy
Equipment Supplied
Environmental Limitations

FF-3- CARGO AND MATERIEL STORING AND SHIPPING CASES, CONTAINERS, AND SUPPORTS

Operational Use
Safety Features and Devices
Storage Data
Floor Area Required: (square feet)
Stacking Method
Handling Method
Warehouse Equipment Required
Design Data

Type of Design
Materiel Used
Materiel Limitations
Sealing Method
Reusable Qualities
Life Expectance
Equipment Supplied
Environmental Limitations

FF-4- SPECIAL PURPOSE AND MULTIPURPOSE PROTECTIVE DEVICES

)perational Use
Safety Features and Devices
Design Data
Type of Design
Materiel Used
Materiel Limitations
Sealing Method
Reusable Qualities
Countermeasure Used Against Hazards Involved
Storage Data
Floor Area Required
Stacking Method
Handling Method
Warehouse Equipment Required
Hazard Data
Type of Hazards Encountered
Maximum Protection Against
Minimum Protection Against
Life Expectancy
Equipment Supplied
Environmental Limitations
Power Requirements
Voltage
Frequency
Phase
Power Consumption
Mechanica/Pneumatic Input

GG-1- GENERAL MECHANICAL CLEANING, DEGREASING, AND DESCALING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Cleaning Agent
Type of Foreign Substance Removed
Method of Application
Type of Container
Tank Capacity
Maximum Size of Item Cleaned
Operating Temperature
Type of Regulation: (Manual/ Automatic)
Duty Cycle
Operating Pressure
Method of Filling Tank
Pump Capacity
Pump Discharge Pressure
Pump RPM
Number and Type of External Connections
Transportation Data
Vehicle Type
Pintile Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Type of Purifier
Type of Preservative
Method of Winterization
Type of Nozzles
Equipment Supplied
Environmental Limitations

GG-2- DE-ICING AND DECONTAMINATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Foreign Substance Removed
Type of Removal Agent
Method of Application
Maximum Size of Item Cleaned
Type of Container
Tank Capacity
Operating Temperature
Operating Pressure
Method of Distribution
Method of Purging
Type of Metering Device
Type of Timing Device
Type of Flushing Agent
Method of Purification
Degree of Purification
Regulation: (Manual/Automatic)
System Protection
Safety Features
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Tie-Down Provisions
Equipment Supplied
Environmental Limitations

GG-3- ROAD AND RUNWAY CLEANING AND REPAIRING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Substance to be Removed
Type of Removal Agent
Method of Application
Type of Container
Capacity
Type of Fan
Operating Pressure
Regulation: (Manual/Automatic)
Method of Winterization
Number and Type of External Connections
Plow Width
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread

Type of Pump
Pump Capacity
Power Plants
Number and Type of Tie-Downs
Sweeper Wheel Base
Turning Radius
Braking System Type
Lighting System Type
Equipment Supplied
Environmental Limitations

GG-4- LUBRICATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Pump
Operating RPM
Pump Capacity:
  Minimum
  Maximum
Discharge Pressure
Type of Lubricant
Type of Reservoir
Reservoir Capacity
Method of Draining Reservoir
No. & Type of Filters
Type and Range of Indicator
Type of Surge Arrestor
Method of Water & Oil Separation
Method of Water Disposal
Method of Venting
Operating Temperature
Purity Control
Type of Regulation: (Manual/Automatic)
Duty Cycle
No. & Type of External Connections
No. & Type of Pressure Relief Devices
Type and Size of Filler Opening
Method of Filling
No. & Type of Tie-Downs
Servicing Range (Distance)
Method of Purging
Method of Winterization
Transportation Data
Vehicle Type
Pintle Height
Transportation Data
Lunette Height
No. & Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type

GG-5- WHEEL, TIRE, AND MECHANICAL SYSTEM SERVICING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Mechanical/Pneumatic/Hydraulic Input Requirements

Phase
Power Consumption
Fuel Tank Capacity
Fuel Type

OUTPUT AND OPERATIONAL CHARACTERISTICS

Operational Use
Method of Preparation
Method of Application
Method of Operation

Type of Output
Capacity
Discharge Volume
Discharge Pressure
Temperature Control Range
Number & Type of External Connections

Hose or Ducting: (Size and Length)

Reservoir Volume
Type of Fluid Used
Filter Type
Filter Size
Filler Opening (Type & Size)
Type of Flushing Agent Used
Flushing Agent Specification
Purging Method
Bonding Pressure Required
Dust Collection Method
Type of Brake System Serviced
Type of Wheels Serviced
Type of Tires Serviced
Output Regulation
Leak Detection Method
Maximum Permissible Leakage
Regulation Type: (Manual/ Automatic)

Indicator Type
Indicator Range
Operating RPM
Duty Cycle
Types of Holding Fixtures Used
Transportation Data
Vehicle Type

Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Lighting System Type
Safety Features and Devices
Equipment Supplied
Environmental Limitations

GG-6- SPECIAL PURPOSE AND MULTIPURPOSE SERVICING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Power Requirement

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Agent Removed
Type of Agent Replenished
Method of Flushing
Method of Removal

Discharge Volume
Discharge Pressure
Type and Range of Detection
Type and Range of Indication
Regulation Type: (Manual/ Automatic)
Regulation (Amount)
Sensitivity
Selectivity
Operating Temperature Range
Operating RPM
Rated Capacity
Method of Application
Method of Distribution
Method of Filtration
Method of Venting
Method of Draining
Method of Purging
Metering Devices
Timing Devices
Duty Cycle
Safety Features and Devices
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Road Clearance
Wheel Base and Tread
Turning Radius
Transportation Data
Braking System Type
Lighting System Type
Equipment Supplied
Environmental Limitations

GG-7- MAINTENANCE PLATFORMS, STANDS, SUPPORTS, AND ACCESSORIES

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Operational Use
Method of Operation
Assembly Method
Assembly Time
Design Data

Type of Design
Materiel Used
Materiel Requirements
Frame Requirements
Configuration
Capacity (Personnel/Equipment)
Number of Platforms
Platform Material
Work Area
Head Clearance
Height Adjusting Mechanism
Towing Equipment Required
Materiel Protective Devices
Equipment Protective Devices
Personnel Protective Devices
Tool/Equipment Resting Features
Transportation Data
Vehicle Type
Pintle Height
Lunette Height
Number and Size of Wheels
Tire Size and Type
Transportation Data
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type

Locking Devices Used
Tie-Down Provisions
Resting Surface/Foundation Requirements
Storage Requirements

Lighting System Type
Input Connections
Output Connections

Safety Features
Life Expectancy
Environmental Limitations

HH-1- HOISTING, JACKING, LIFTING, TOWING, AND POSITIONING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Requirements

Power Source Type
Power Source Rating
Method of Coupling
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Rated Capacity
Maximum Radius
Minimum Radius

Maximum Permissible Overload
Maximum Overload Period
Boom Type
Maximum Boom Elevation
Minimum Boom Elevation
Boom Regulation Type: (Manual/ Automatic)
Rotation Range
Erection Capability
Length of Trolley Movement
Type of Control
Electrical System Type
Electrical System Function
Transportation Data
Prime Mover Type
Pintle Height

Lunette Height
No. and Size of Wheels
No. and Size of Driving Wheels
Tire Type and Size
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type

Steering Type
Suspension Type
Maximum Speed
Maximum Towing Speed
Type of Lift Assembly
Lifting Arrangement
Body Type
No. and Type of Tie-Downs
Protective Devices and Safety Equipment
Configurations Available
Equipment Supplied
Environmental Limitations

HH-2- TRANSPORTING OF EQUIPMENT AND SOLID MATERIAL

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Fuel Type.
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Rated Capacity
Maximum Permissible Overload
Maximum Overload Period
Loading Area
Type of Control
Electrical System Type
Electrical System Function
Transportability (Self-Propelled or Towed)
Prime Mover Type
Pintle Height
Lunette Height
No. and Size of Wheels
No. and Size of Driving Wheels
Tire Type and Size
Angle of Approach
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Steering Type
Suspension Type
Maximum Speed
Maximum Towing Speed
Type of Lift Assembly
Lifting Arrangement
Mechanism Type
Body Type
No. and Type of Tie-Downs
Protective Devices and Safety Equipment
Configurations Available
Equipment Supplied
Environmental Limitations

HH-3- LAUNCHING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Requirements
Power Source Type
Power Source Rating
Method of Coupling
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Mechanism Type
Method of Operation
Type and Range of Indication
Accuracy of Indication

Method of Replenishing

Regulation Type and Rating
Discharge Volume
Discharge Pressure
Thrust
Launch Velocity
Capacity

Protective Devices and
Safety Equipment

Average Assembly Time
Leveling Devices
External Connections Required
/Equipment Supplied
Associated Equipment
Environmental Limitations

HH-4- ARRESTING, PARKING, AND SECURING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase

Power Consumption
Pneumatic/Mechanical/Hydraulic
Input Characteristics

OUTPUT AND OPERATIONAL CHARACTERISTICS

Capacity
Method of Preparation
Method of Application
Method of Operation
Regulation Type
Safety Features

Maximum Storage Period
Mechanism Type
Type of Material
Average Assembly Time
Equipment Supplied
Environmental Limitations

HH-5- SPECIAL PURPOSE AND MULTIPURPOSE HANDLING AND MOVING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic
Requirements

Power Source Type
Power Source Rating
Method of Coupling
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Rated Capacity
Maximum Radius
Minimum Radius
Loading Area
Type of Control
Electrical System Type

Transportation Data
Suspension Type
Maximum Speed
Maximum Towing Speed
Mechanism Type
Method of Replenishing

Electrical System Function
'aximum Permissible Overload
 aximum Overload Period
Boom Type
Maximum Boom Elevation
Minimum Boom Elevation
Boom Regulation Type (Manual or Automatic)
Rotation Range
Erection Capability
Transportability: (Self-Propelled or Towed)
Transportation Data
Prime Mover Type
Pintle Height
Lunette Height
Number and Size of Wheels
Number and Size of Driving Wheels
Tire Type and Size
Angle of Approach
Road Clearance
Wheel Base and Tread
Turning Radius
Braking System Type
Steering Type
Regulation Type and Rating
Discharge Volume
Discharge Pressure
Thrust
Launch Velocity
Type and Range of Indication
Type of Lift Assembly
Lifting Arrangement
Body Type
Number and Type of Tie-Downs
Protective Devices and Safety Equipment
Configurations Available
Method of Preparation
Method of Application
Method of Operation
Maximum Storage Period
Mechanism Type
Type of Material
Average Assembly Time
Leveling Devices
Equipment Supplied
Associated Equipment
Environmental Limitations

JJ-1- HEATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling
Fuel Type
Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Temperature Range
Temperature Control Accuracy
Rated Discharge Volume
Rated Discharge Pressure
Means for Air Distribution
Heater Type
Heater Rating
Towing Provisions
Maximum Towing Speed
Transporting Vehicle

Means for Air Purification
Input Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions
Tie-Down Provisions
Number and Size of Wheels
Tire Type and Size
Braking System Type
Lighting System Type
Body Type
Protective Devices and Safety Equipment
Equipment Supplied
Environmental Limitations

JJ-2- AIR COOLING AND AIR CONDITIONING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Temperature Range
Temperature-Control Accuracy
Cooling Capacity
Refrigerant Type
Refrigerant Capacity
Type of Coolant
Coolant Connections
Means of Regulation
Dehumidifier Type
Output Relative Humidity
Heat Exchanger Type
Rated Discharge Volume
Rated Discharge Pressure
Means for Air Distribution
Means for Air Purification
Input Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions
Tie-Down Provisions
Towing Provisions
Maximum Towing Speed
Transporting Vehicle
Number and Size of Wheels
Tire Type and Size
Braking System Type
Lighting System Type
Body Type
Protective Devices and Safety Equipment
Equipment Supplied
Environmental Limitations

JJ-3- VENTILATING AND AIR CIRCULATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling

OUTPUT AND OPERATIONAL CHARACTERISTICS

Rated Discharge Volume
Rated Discharge Pressure
Means for Air Distribution
Means for Air Purification
Input Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions
Tie-Down Provisions
Towing Provisions
Maximum Towing Speed
Transporting Vehicle
Number and Size of Wheels
Tire Type and Size
Braking System Type
Lighting System Type
Body Type
Protective Devices and Safety Equipment
Environmental Limitations

JJ-4- HUMIDITY CONTROLLING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling

OUTPUT AND OPERATIONAL CHARACTERISTICS

Maximum Volume of Controlled Area
Relative Humidity Range
Output Relative Humidity
Humidifier Type
Water Supply Connections
Dehumidifier Type
Absorption/Adsorption Range
Recharging Time
Condensed Water Capacity
Humidity Control Accuracy
Rated Discharge Volume
Rated Discharge Pressure
Means for Air Distribution
Input Connections
Drain Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions

Means for Air Purification
Towing Provisions
Transporting Vehicle
Tire Type and Size
Body Type
Equipment Supplied
Environmental Limitations
Tie-Down Provisions
Maximum Towing Speed
Number and Size of Wheels
Braking System Type
Protective Devices and Safety Equipment

INOUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Temperature Range
Temperature Control Accuracy
Cooling Capacity
Refrigerant Type
Refrigerant Capacity
Type of Coolant
Coolant Connections
Means of Regulation
Dehumidifier Type
Output Relative Humidity
Heat Exchanger Type
Rated Discharge Volume
Rated Discharge Pressure
Means for Air Distribution
Means for Air Purification
Input Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions
Tie-Down Provisions
Towing Provisions
Maximum Towing Speed
Transporting Vehicle
Number and Size of Wheels
Tire Type and Size
Braking System Type
Lighting System Type
Body Type
Protective Devices and Safety Equipment
Equipment Supplied
Environmental Limitations

JJ-6- MULTIPURPOSE HEATING, COOLING, VENTILATING, AND HUMIDITY CONTROL EQUIPMENT

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Phase
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements
Power Source Type
Power Source Rating
Method of Coupling

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Temperature Range
emperature Control Accuracy
Heater Type
Heater Rating
Cooling Capacity
Refrigerant Type
Type of Coolant
Coolant Connections
Means for Air Purification
Means of Regulation
Refrigerant Capacity
Dehumidifier Type
Rated Discharge Pressure
Means for Air Distribution
Input Connections
Drain Connections
Operating RPM
Type of Control
Duty Cycle
Noise Level
Installation/Mounting Provisions
Tie-Down Provisions
Output Relative Humidity
Heat Exchanger Type
Relative Humidity Range
Output Relative Humidity
Humidifier Type
Water Supply Connections
Dehumidifier Type
Absorption/Adsorption Range
Recharging Time
Condensed Water Capacity
Humidity Control Accuracy
Rated Discharge Volume
Towing Provisions
Maximum Towing Speed
Transporting Vehicle
Number and Size of Wheels
Tire Type and Size
Braking System Type
Lighting System Type
Body Type
Protective Devices and Safety Equipment
Equipment Supplied
Environmental Limitations

XK-1- FIRE FIGHTING, CRASH AND RESCUE EQUIPMENT

Operational Use
Method of Preparation
Method of Application
Safety Features of Equipment
Propulsion Data
Truck Power Plant Data
Transmission Features
Number and Size of Wheels
Number and Size of Driving Wheels
Size and Type of Tires
Type of Braking System
Type of Steering Mechanism
Chassis Data
Suspension Data
Wheel Base and Tread
Truck Equipment Data
Cab Data
Primary Agent Tank Capacity
Angle of Departure
Pumping Plant Data
Type of Pump
Pump Controls
Discharge Volume
Discharge Pressure
Rated Capacity
Maximum Operating Time
Hydraulic System Data
Type of Hydraulic System
Hydraulic System Limitations
Hydraulic System Data
Hydraulic System Controls
Discharge Equipment
Type of Equipment
Location
Discharge Pressure at Nozzle
Discharge Rate at Nozzle

Seconadary Agent Tank Capacity
Tertiary Agent Tank Capacity
Fire Fighting Equipment Power Plant Data
Electrical System Data
Truck Equipment Data
System Protection Features
Internal Control Locations and Use
External Control Locations and Use
Driving Limitation Data
Speed
Transmission Controls
Turning Radius
Height Clearance
Road Clearance
Angle of Approach
Winterization Kit Data
Area Coverage
Service Range
Safety Features
Use:
Preparation for Operational Readiness Condition
Equipment Storage Method
Equipment Flushing Method
Equipment Testing Method
Extinguishing Agent Data
Types of Extinguishing Agents Used
Extinguishing Agent Specification
Primary Agent Qualification
Secondary Agent Qualification
Environmental Limitations

KK-2- SURVIVAL EQUIPMENT AND DEVICES

Type of Survival Equipment or Device
Use of Survival Equipment
Installation Preparation Method
Installation Method
Emergency Removal/Utilization Method
Emergency Checking of Equipment Data
Equipment Limitations
Equipment Supplied
Environmental Limitations Data
Jungle
Artic
Desert
Afloat

NOTE

Due to the wide range of conditions which are simulated, and to the great number of training methods and techniques which are used, it is not feasible to prepare descriptive patterns for all "LL" categories. Therefore, one pattern has been formulated for use in preparing tabulated technical data for training and/or simulating equipments. This pattern is sufficiently broad in scope to be used for any training and/or simulating equipments, yet is specific enough to ensure adequate technical description of any of these equipments.

LL-TRAINING AND SIMULATING

INPUT POWER CHARACTERISTICS

Voltage
Frequency
Power Consumption
Mechanical/Pneumatic/Hydraulic Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Training Mission:
Primary
Secondary
Personnel Factors

Number of Trainees Handled
Maximum
Minimum

Number of Instructors/Operators
Maximum
Minimum
Trainee Qualifications Required
Instructor/Operator Qualifications Required
Maintenance Personnel Qualification Required
ensory Excitation Method
isual
Audio
Tactile
Gustatory
Olfactory
Kinetic
Trainee Testing Method Data
Trainee Learning Process
For Trainee
For Instructor/Operator
Safety Features:
For Equipment
For Maintenance Personnel
Maintenance Data
Preventive Maintenance Requirements
Overhaul Maintenance Requirements
Level of Maintenance Personnel Training

Trainee Response to Equipment
Trainee Testing Method Data
Trainee Response to Command
Trainee Response to External Stimuli
Scoring Equipment Data
Type of Device
Method of Computation/ Conversion
Forms or Charts Required
Tracking Equipment Data
Type of Device
Method of Operation (Manual/ Automatic, etc.)

Use
Charts or Maps Required
Computer Equipment Data
Type of Device
Method of Operation (Manual/ Automatic, etc.)
Use
Forms or Charts Required
Safety Features
Type of Equipment Simulated
Name of Equipment Used
Method of Operation
Use
Location
Radar Equipment Data

Type of Equipment Simul.ted

Name of Equipment Used
Radar Equipment Data

Test Equipment Required
Spare Part Availability
Flight Characteristics
Type of Airborne Vehicle Simulated
Aircraft Attitudes Simulated

Pre-Flight Characteristics Simulated
In-Flight Characteristics Simulated
Post-Flight Characteristics Simulated
Flight Control Handling Characteristics
Load Condition Range
Speed Condition Range
Power Condition Range
Instrument/Indicator Data
Name of Instrument
Method of Operation

Use
Location
Navigation Equipment Data
Type(s) of Equipment Simulated
Name of Equipment Used
Method of Operation
Use
Location
Communication Equipment Data

Method of Operation
Use
Location

Emergency Condition Characteristics

Type of Condition Simulated
Method of Application
Use
Simulated Environmental Condition Characteristics
Type of Environmental Condition
Method of Application
Use
Equipment Supplied
Forms, Reports, Charts, Etc.
Special Equipments
Modification Kits
(Other)
Environmental Limitations:
Housing Requirements
Temperature Range
Pressure/Altitude Range
Humidity Range
Weather Protection Requirements

CUSTODIANS:

Air Force - 99
Army - AV
Navy - AS

REVIEW ACTIVITIES

Air Force - 11

PREPARING ACTIVITY:

Air Force - 99

PROJECT NUMBER

MISC-0D72

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