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MILITARY STANDARD

GROUND SUPPORT EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES



DEPARTMENT OF DEFENSE

WASHINGTON, D. C. 20301

GROUND SUPPORT EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES

MIL-STD-864

- 1. This Military Standard is mandatory for use by all Departments of the Department of Defense.
- 2. Recommended corrections, additions, or deletions should be addressed to AFLC (MCSIA), Wright-Patterson AFB, Ohio 45433.

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1. SCOPE:

1.1 This Military Standard provides a functional classification of the categories and the technical characteristics requirements for Ground Support Equipment (GSE) which are necessary for making comparisons of similar items of equipment. It also provides Government and contractor personnel a standard for determining the appropriate functional classification category of ground support equipment for indexing and for providing a technical description of such equipment as required by Data Item, Standard Integrated Support Management System (SISMS) - SE-4 "Ground Support Equipment Illustration," for inclusion of items in MIL-HDBK-300, Technical Information File (TIF) on Ground Support Equipment.

2. REFERENCED DOCUMENTS:

2.1 The following document 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

MIL-HDBK-300

Technical Information File (TIF) on Ground Support Equipment

Data Item. SISMS-SE-4, Ground Support Equipment Illustration (GSEI)

(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.)

- DEFINITIONS: Not applicable.
- 4. GENERAL REQUIREMENTS:
- 4.1 The functional classification index provides the contractor a means by which equipments can be functionally categorized to provide a homogeneous grouping of items for publication in MIL-HDBK-300.
- 4.2 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, SISMS-SE-4.
- 5. DETAILED REQUIREMENTS:

5.1 LIST OF EQUIPMENT FUNCTIONAL CLASSIFICATION CATEGORIES

- GROUP AA Measuring, Testing, and Adjusting
- 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 Supplying, Processing, Storing, and Shipping
- GROUP FF Personnel and Solid-Material Protection
- GROUP GG Maintenance and Servicing
- GROUP HH Handling and Moving of Equipment and Solid Material
- GROUP JJ Heating, Cooling, Ventilating, and Humidity Control
- GROUP KK Fire-Fighting, Rescue and Survival
- GROUP LL Training and Simulating

5.2 LIST OF FUNCTIONAL CLASSIFICATING 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 Measuring
 - 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 Electric 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	
	AA-5.9	
		X-Radiation Detecting and Measuring
		Nuclear Radiation Detecting and Measuring
		Multifunction Detecting and Intensity Measuring
44-6		tion, Velocity, Rate, Frequency, and Time Measuring
111 · U	and Count	
		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
		Elapsed (Cumulative) Time Measuring
		Duration Measuring
	AA-6.9	Interval Measuring (Chronoscopes)
	AA-6.10	
AA - 7		Measuring, Testing, and Aligning
	AA-7.1	
	AA-7.2	
	AA-7.3	· · · · · · · · · · · · · · · · · · ·
	AA-7.4	· · · · · · · · · · · · · · · · · · ·
8-AA		Measuring and Testing
122 0		Physical Dimension Measuring
		Weight, Density, and Specific Gravity Measuring
	AA-8.3	Volume Measuring
		Pressure Measuring
		Moisture Content Measuring
		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
		Friction Measuring
		Color, Luster, and Reflectance Measuring and Testing
		Contamination and Surface Irregularity (Fluorescent)
	AA-0.12	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	
AA-9		ction Measuring and Testing (Excludes Engines and Missile
		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,
).0	Synchro, etc.) Testing

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 Measuring 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
Active De	vices 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
Passive D	evices 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 Coupling, Matching,
	and Distribution Devices (Includes Fixed
-	Attenuators and Most Voltage Dividers and Probes)
AA-12.5	Passive (Non-cabled) Electromagnetic and
•	Electrostatic Coupling, Matching, and
	Distribution Devices (Includes Inductive
	Voltage Dividers and Probes)
AA-12.6	Mounting Devices and Passive Mechanical
	Coupling Devices
	Passive Filters (Excludes Probes)
	Passive Delay Devices
44 40 0	T
AA-12.9	Passive, Non-Power-Measuring Terminations and
	Dummy Loads
AA-12.10	Dummy Loads Passive Mixers, Modulators, and Detectors
	Dummy Loads
	AA-10.1 AA-10.2 AA-10.3 AA-10.4 AA-10.5 AA-10.6 AA-10.7 AA-10.8 AA-10.9 AA-10.10 Active De AA-11.1 AA-11.2 AA-11.3 AA-11.4 AA-11.5 AA-11.6 AA-11.7 AA-11.8 Passive D AA-12.1 AA-12.2 AA-12.3

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

BB-1 Signal Generating
BB-1.1 Signal Generators and Oscillators (Includes a-m, f-m, pulse-modulated, audio, sweep, etc. types)

	BB-1.2	Complex Wave Generators (includes Pulse, square-
	BB-1.3	wave, triangular-wave, sawtooth, etc. types) 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		1 Power Supplying, Generating, Storing, and Converting
	BB-2.1	Electrical Generators, Converters, Inverters, and Dynamotors
	BB-2.2	Electrical Power Supplies and Battery Chargers
	BB-2.3	Transformers and Electrical Distribution Networks
BB-3	Mechanica	1, Hydraulic, Pneumatic, and Vacuum Power
		, 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)
		••••
COMMUN	ICATING, S	IGNALING, AND LIGHTING
CC-1		ting (Excludes Headsets, Loudspeakers, etc.)
	CC-1.1	Intercommunication Systems
	CC-1.2	Public Address Systems
	CC-1.3	Multifunction and Special Purpose Communicating
00.0		Devices
CC-2	Signaling	
	CC-2.1	Signal Lights
	CC-2.2	Mechanical Signaling Devices
00.0	CC-2.3	Special-Purpose Signaling Devices
CC-3	Lighting	4
	CC-3.1	Area Lighting
	CC-3.2	Search Lighting
	CC-3.3	Marking and Identification Lighting
	CC-3.4	Special-Purpose Lighting
ENGINE	AND MISSI	LE SYSTEM CHECKOUT AND TESTING
DD-1	Engine Ch	neckout 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		ystem 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
	nn = 2.7	Missile Countdown Equipment

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DD.

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

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 Protective Devices

GG. MAINTENANCE AND SERVICING

- GG-1 General Mechanical Cleaning, Degreasing, and Descaling
 - GG-1.1 Pressure and Vacuum Cleaners
 - GG-1.2 Spray Cleaners and Degreasers.
 - GG-1.3 Descalers
 - GG-1.4 Special-Purpose and Multipurpose Cleaning Devices
- GG-2 De-Icing and Decontaminating
 - GG-2.1 De-Icing
 - 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 Equipments
 - GG-4.2 Greasing Equipments
 - GG-4.3 Combination Oiling and Greasing Equipments
 - GG-4.4 Special-Purpose Lubricating Equipments
- 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

HH.

JJ.

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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 HANDLING AND MOVING OF EQUIPMENT AND SOLID MATERIAL Hoisting, Jacking, Lifting, Towing, and Positioning HH-1HH-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 Transportation HH-3 Launching HH-3.1 Aircraft Launching Guided-Missile Launching HH-3.2 Rocket Launching HH-3.3 Arresting, Parking and Securing HH-4 Auxiliary Braking HH-4.1 Emergency Braking and Arresting HH-4.2 HH-4.3 Securing (Chocking, Locking, etc.) Parking and Similar Storing HH-4.4 Special-Purpose and Multipurpose Handling and Moving (includes HH-5 combined Lifting and Moving Vehicles and Equipments) HEATING, COOLING, VENTILATING, AND HUMIDITY CONTROL JJ-1 Heating JJ-1.1 Area Heating JJ-1.2 Equipment Heating Special-Purpose and Multipurpose Heating Equipments JJ-1.3 Air Cooling and Air Conditioning **JJ-**2 Air Cooling and Air Conditioning JJ-2.1 Special-Purpose and Multipurpose Cooling Equipments JJ-2.2 JJ-3Ventilating and Air Circulating JJ-3.1 Ventilating and Air Circulating Special-Purpose and Multipurpose Ventilating and Air JJ-3.2 Conditioning Equipments JJ-4 Humidity Controlling JJ-4.1 Humidity Reducing JJ-4.2 Humidity Increasing Constant-Humidity Equipments JJ-4.3 Special-Purpose and Multipurpose Humidity-Controlling JJ-4.4 Equipments

LL-5

LL-5.1 LL-5.2

	JJ- 5	JJ-5.1	General-Purpose Refrigerating Equipments
		JJ-5.2	Special-Purpose and Multipurpose Refrigerating Equipments
	J J- 6		ose and Special-Purpose Heating, Cooling, Ventilating ity-Control Equipments
KK.	FIRE-F	GHTING, R	ESCUE, AND SURVIVAL
	1212 1	Dia Bish	Check and Bosons Equipments
	KK-1		ting, Crash, and Rescue Equipments
		KK-1.1	
		KK-1.2	Crash Equipments
			Rescue Equipments
			Special-Purpose and Multipurpose Fire-Fighting, Crash and Rescue Equipment
	KK-2		Equipments and Devices
		KK-2.1	
		KK-2.2	Survival Vehicles
		KK-2.3	Special-Purpose and Multipurpose Survival Items
LL.	TRAIN	ING AND SIM	ULATING
	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		ew-Training Flight Simulators
			Flight-Principle Trainers
		LL-2.2	Flight-Control, Navigation, and Warning-Indicator
			Instrument Systems Trainers
		LL-2.3	Mechanical System Trainers
			Electrical System Trainers
			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-3.5	High-Altitude-Bombing Trainers
		LL-3.6	Ground-Support-Bombing Trainers
		LL-3.7	Armament Components Trainers
		LL-3.8	Multipurpose Armament Trainers
		LL-3.9	Mobile Training Units
	LL-4	Navigatio	n Trainers
		LL-4.1	Dead-Reckoning Navigation Trainers
_		LL-4.2	Celestial Navigation Trainers
		LL-4.3	Electronic Navigation Trainers
		LL-4.4	Crew Navigation Trainers
		LL-4.5	Mobile Training Units
		LL-4.6	Aero- Space Navigation Training Units

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Primary Communications Equipment Trainers Advanced Communications Equipment Trainers

Radar and Communications Trainers

LL-5.3 Primary Radar Equipment Trainers LL-5.4 Advanced Radar Equipment Trainers LL-5.5 Radar Countermeasures 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 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 Audio-Visual Training Devices (Projectors and LL-9.6 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, Pheumatic, Oxygen, Fuel, Oil, etc.

5.3 LIST OF EQUIPMENT IDENTIFICATION CHARACTERISTICS

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

INPUT CHARACTER ISTICS

Voltage Frequency Phase Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Frequency Range and Response Voltage Type and Range Current Type and Range Resistance Range Decibel Range

Probe Data
Meter Size
Meter Movement
Accuracy
Equipment Supplied

Input Impedance and/or Sensitivity Output Impedance

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

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

Z-Axis (Intensity Modulation) Data* Sensitivity Frequency Range and Response Input Impedance Attenuation Rise Time Distortion

Distortion

Sweep Type(s)

Sweep Frequency Sweep Duration

Sweep Repetition Rate

Sweep Calibration and Accuracy Image Storage Duration

Sweep Synchronization Type Y-(Vertical) Axis 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

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

Torque Range

Reception Type

Voltage Type and Range Current Type and Range

Decibel Range

Frequency Range

Speed Range

VSWR

Input Impedance and/or Sensitivity

Output Impedance

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

Power Consumption

Mechanical/Pneumatic/Hydraulic/

Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

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

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)

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

Phase

Frequency

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

Power Consumption

Frequency

Mechanical/Pneumatic/Hydraulic

Phase

Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Types of Test Performed

Method of Testing Type of Indication

Method of Connection to Test Item Input Devices

Output Data

Test Connectors

Test Adapters and Holders Number & Type of Test Points

Readout 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

Power Consumption

Frequency

Mechanical/Pneumatic/Hydraulic

Phase

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

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

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Current Range Power Range Resistance Range Capacitance 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 **VSWR** Duty Cycle

Breakdown Voltage

Number of Channels Channel Separation Mixing Ratio Type of Indicator Meter Type Meter Movement

Means for Calibration

Voltage Range Current Range

Means of Coupling Sensitivity Selectivity Accuracy

Frequency Range and Response

Bandwidth

Environmental Limitations

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

VSWR

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

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

Phase

Power Consumption

Power Coupling Method Input Pressure Required Input Volume Required

Fuel Type

Fuel-Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Discharge Pressure Discharge Volume Discharge Temperature Storage Volume

Storage Volume
Storage Pressure
Loss During Storage
Output Connections

Motor Data Turbine Data Compressor Data

Pump Data

Output Regulation

Duty Cycle

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

Permissible Overload Operating RPM Back Pressure Lubricant Type Lubricant Capacity System Filter 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 Communication

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

GUTPUT AND GETRATIONAL 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 and Quantities)

INPUT POWER CHARACTERISTICS

Voltage Frequency Phase

Power Consumption

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Illumination

Luminous Rating

Range of Visibility

Beam Spread

Range of Rotation Elevation Range Filter Type

Filter Color Lens Data

Number of Lights

Type of Light and Base

Fuel Type

Fuel Tank Capacity

Duty Cycle

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

Fue1-Pressure Range Combustion Efficiency Range

Operating Voltages

Regulation: (Manual or Automatic) Equipment Supplied

Coolant Pressure Lubricant Pressure Ignition Requirements Type of Carburetion

Meter, Chart, or Scope Data

Sensitivity Stability

Brake Horsepower System Protection Safety Features

Environmental Limitations

TUBE / SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

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DD-2-MISSILE SYSTEM CHECKOUT AND TESTING

INPUT POWER CHARACTERISTICS

Voltage Power Consumption

Frequency Mechanical/Pneumatic/Hydraulic

Phase Input Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Operating Frequency Range and Response

Receiving System
Transmitting System
Type of Indication
Data Indicated
Data Recorded
Operating Pressure
Operating Temperature
Type of Indication
Data Indicated
Data Recorded
Chart Data

Operating RPM Sequence of Events Timer Data Operating Voltage Frequency-Indication Range

Discharge Volume Voltage Range
Hydraulic Pressure Current Range
Vacuum Range Power Range

Time Intervals Static Firing Position

Regulation: (Manual or Automatic) Sensitivity
Type of Actuation Stability
Combustion Efficiency Selectivity

Elevation Range Malfunction Provisions
Type of Separator Mechanism Standby Provisions
Type of Antibacklash Provisions
Number of Reception Channels Safety Features
Number of Transmission Channels Equipment Supplied

Type of Programming Environmental Limitations

Discharge Pressure

TUBE/SEMICONDUCTOR COMPLEMENT

(Types and Quantities)

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

INPUT POWER CHARACTERISTICS

Voltage Mechanical/Pneumatic/Hydraulic

Frequency Input Requirements

Phase Fuel Type

Power Consumption Fuel Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Input Method of Venting

Number and Type of Cylinders or Sections

Volume of Cylinders or Sections Tie-Down Provisions
Vacuum Range Lifting Provisions
Discharge Pressure Transportation Data

Discharge Volume Vehicle Type Operating RPM Pintle Height

Operating Temperature Range

Method of Filtration

Method and Degree of Purification

Back Pressure Type of Snubber

Regulation Type (Manual/Automatic) Turning Radius

Duty Cycle

Method of Filling

Method of Purging

Method of Sealing

Lunette Height

Number and Size of Wheels

Tire Size and Type Road Clearance

Wheel Base and Tread

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

Fuel Type

Fuel-Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Number and Type of Tanks/Compartments

Volume of Tanks/Compartments

Discharge Pressure Discharge Volume

Operating RPM

Operating Temperature Range

Method of Filtration

Method and Degree of Purification

Back Pressure

Type of Snubber

Regulation Type (Manual/Automatic) Road Clearance

Duty Cycle

Method of Filling

Method of Purging Method of Sealing

Method of Venting

Input Requirements

Types and Ranges of Indicators

Tie-Down Provisions

Lifting Provisions Transportation Data

Vehicle Type

Pintle Height

Lunette Height

Number and Size of Wheels

Tire Size and Type

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

Capacity

Floor Space: square feet Total Area: cubic feet Personnel: (number) Safe-Load Factor

Life Expectancy Safety Feature's

Platform Required

Door Locations: (Internal)

Exit Locations

Compartmentation Data

Facilities Heating Data Ventilation Data

Illumination Data

Electrical Outlet Data Communications Circuits

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

Number of Levels

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

Operational 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

Type of Hazards Encountered Maximum Protection Against Minimum Protection Against

Life Expectancy Equipment Supplied

Environmental Limitations

Power Requirements

Frequency Phase

Power Consumption

Mechanical/Pneumatic Input

Warehouse Equipment Required Hazard Data

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

INPUT POWER CHARACTERISTICS

Voltage Frequency Phase

Power Consumption Mechanical/Pneumatic/Hydraulic Input Requirements

Vehicle Type

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type of Cleaning Agent Type of Foreign Substance Removed Pintile Height

Method of Application Lunette Height Number and Size of Wheels Type of Container

Tire Size and Type Tank Capacity Road Clearance Maximum Size of Item Cleaned Operating Temperature Wheel Base and Tread

Type of Regulation: (Manual/Automatic)

Turning Radius Duty Cycle Braking System Type Operating Pressure Method of Filling Tank Lighting System Type Type of Purifier Pump Capacity Type of Preservative Pump Discharge Pressure

Pump RPM Method of Winterization

Number and Type of External Connections

Type of Nozzles Transportation Data 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 System Protection 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

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

Method of Purification Degree of Purification Tie-Down Provisions Equipment Supplied

Regulation: (Manual/Automatic)

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

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

Number and Type of External Connections

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. and Type of Filters Type and Range of Indicator Type of Surge Arrestor Method of Water & Oil Separation Method of Water Disposal

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. and Size of Wheels Tire Size and Type

Method of Venting
Operating Temperature
Purity Control
Type of Regulation (Manual or
Automatic)
Duty Cycle

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 Phase Power Consumption Mechanical/Pneumatic/Hydraulic Input Requirements 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 or Auto-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 Discharge Volume Discharge Pressure Type and Range of Detection Type and Range of Indication Regulation Type (Manual or 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

Method of Flushing Method of Removal 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 Flatforms Platform Material Work Area Head Clearance Height-Adjusting Mechanism Locking Devices Used Tie-Down Provisions Resting Surface/Foundation Requirements Storage Requirements

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 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 or Automatic)
Rotation Range Steering
Erection Capability Suspension

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

Wheel Base and Tread Turning Radius Braking System Type Steering Type Suspension Type Maximum Speed

Electrical System Function Maximum Towing Speed

Transportability (Self-Propelled or Towed)

Prime Mover Type Type of Lift Assembly Pintle Height Lifting Arrangement Mechanism Type Lunette Height

No. and Size of Wheels Body Type

No. and Size of Driving Wheels No. and Type of Tie-Downs

Protective Devices and Safety Equip-Tire Type and Size Angle of Approach ment

Configurations Available Road Clearance

Equipment Supplied

Environmental Limitations

HH-3-LAUNCHING

INPUT POWER CHARACTERISTICS

Power-Source Type Voltage | Power-Source Rating Frequency Method of Coupling Phase

Power Consumption Fuel Type

Fuel-Tank Capacity Mechanical/Pneumatic/Hydraulic

Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Type and Range of Indication Mechanism Type Accuracy of Indication Method of Operation Method of Replenishing Protective Devices and Safety Equip-

Regulation Type and Rating ment

Discharge Volume Average Assembly Time Leveling Devices Discharge Pressure

External Connections Required Thrust /Equipment Supplied Launch Velocity

Associated Equipment Capacity Environmental Limitations

HH-4-ARRESTING, PARKING, AND SECURING

INPUT POWER CHARACTERISTICS

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

OUTPUT AND OPERATIONAL CHARACTERISTICS

Maximum Storage Period Capacity Mechanism Type Method of Preparation . Type of Material Method of Application Method of Operation Average Assembly Time Equipment Supplied Regulation Type Environmental Limitations Safety Features

HH-5-SPECIAL-PURPOSE AND MULTIPURPOSE HANDLING AND MOVING

INPUT POWER CHARACTERISTICS

Voltage Frequency Phase

Power-Source Type Power-Source Rating Method of Coupling

Power Consumption

Fuel Type

Mechanical/Pneumatic/Hydraulic

Fuel Tank Capacity

Requirements

OUTPUT AND OPERATIONAL CHARACTERISTICS

Rated Capacity Maximum Radius Minimum Radius Loading Area Type of Control

Transportation Data Suspension Type Maximum Speed Maximum Towing Speed Mechanism Type

Electrical System Type Electrical System Function Maximum Permissible Overload Method of Replenishing Regulation Type and Rating Discharge Volume

Maximum Overload Period

Discharge Pressure Thrust

Boom Type

Launch Velocity

Maximum Boom Elevation Minimum Boom Elevation

Type and Range of Indication

Boom Regulation Type (Manual or Automatic)

Rotation Range Erection Capability Type of Lift Assembly Lifting Arrangement

Transportability: (Self-Propelled or Towed)

Transportation Data Body Type Prime Mover Type

Pintle Height

Number and Type of Tie-Downs

Lunette Height

Protective Devices and Safety Equip-

Number and Size of Wheels Number and Size of Driving Wheels Method of Preparation Tire Type and Size

Configurations Available

Angle of Approach Road Clearance Wheel Base and Tread Method of Application Method of Operation Maximum Storage Period

Turning Radius Braking System Type Steering Type

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-Source Type Power-Source Rating Method of Coupling

Power Consumption

Fuel-Type

Mechanical/Pneumatic/Hydraulic Input Requirements Fuel-Tank Capacity

OUTPUT AND OPERATIONAL CHARACTERISTICS

Output Temperature Range
Temperature-Control Accuracy
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

Heater Type
Heater Rating
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

Tie-Down Provisions 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 Equip-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 Equip-

Environmental Limitations

JJ-4-HUMTDITY 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 Rated Discharge Volume Relative-Humidity Range Output Relative Humidity Humidifier Type Water-Supply Connections

Dehumidifier Type

Absorption/Adsorption Range

Recharging Time

Condensed-Water Capacity Humidity-Control Accuracy Means for Air Purification

Towing Provisions Transporting Vehicle Tire Type and Size

Body Type

Equipment Supplied

Environmental Limitations

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 Maximum Towing Speed Number and Size of Wheels

Braking System Type

Protective Devices and Safety Equipment

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JJ-5-REFRIGERATING

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 Equip-

ment.

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 Temperature-Control Accuracy

Heater Type
Heater Rating
Cooling Capacity
Refrigerant Type
Type of Coolant
Coolant Connections

Means for Air Purification

Means of Regulation Refrigerant Capacity 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-Gontrol Accuracy

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

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 Equip-

ment Equipment Supplied

Environmental Limitations

KK-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 Primary Agent Tank Capacity Secondary 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

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 Area Coverage Service Range Safety Features 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 Phase

Power Consumption Mechanical/Pneumatic/ Hydraulic Input Requiremants

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

Tracking-Equipment Data

Forms or Charts Required

Trainee Response to Equipment Trainee-Testing Method Data

Trainee Response to External Stimuli

Method of Computation/Conversion

Trainee Response to Command

Type of Device

Type of Device

Scoring-Equipment Data

Method of Operation (Manual, Auto-

matic, etc.) Instructor/Operator Qualifications Required

Maintenance Personnel Qualification Required

Sensory Excitation Method

Visual .

Audio Tactile

Gustatory

Olfactory Kinetic

Trainee-Testing Method Data ,

Charts or Maps Required Computer-Equipment Data

Type of Device

Method of Operation (Manual, Auto-

matic, etc.)

Use

Forms or Charts Required

Trainee Learning Process

For Trainee

Safety Features

Type of Equipment Simulated Name of Equipment Used

For Instructor/Operator Safety Features:

Method of Operation

For Equipment

For Maintenance Personnel

Location

Maintenance Data

Radar Equipment Data

Preventive Maintenance Requirements

Overhaul Maintenance Requirements

Type of Equipment Simulated

Level of Maintenance-Personnel Training

Name of Equipment Used Radar Equipment Data

Test Equipment Required Spare Part Availability Method of Operation Use

Flight Characteristics

Location

Type of Airborne Vehicle Simulated

Aircraft Attitudes Simulated

Emergency Condition Characteristics

Pre-Flight Characteristics Simulated In-Flight Characteristics Simulated Post Flight Characteristics Simulated Flight-Control Handling Characteristics

Load Condition Range

Type of Condition Simulated

Speed Condition Range Power Condition Range Method of Application

Instrument/Indicator Data

Use

Name of Instrument

Simulated Environmental-Condition

Method of Operation

Characteristics

Type of Environmental-Condition

Location

Method of Application

Navigation Equipment Data

Equipment Supplied

Type(s) of Equipment Similated Name of Equipment Used

Forms, Reports, Charts, Etc.

Method of Operation

Special Equipments Modification Kits

Use

(Other)

Location

Environmental Limitations:

Communication Equipment Data

Housing Requirements Temperature Range Pressure/Altitude Range

Humidity Range

AIR FORCE

Weather-Protection Requirements Mounting Surface Requirements

CUSTODIANS:

ARMY

NAVY

PREPARING ACTIVITY:

ATR FORCE

26

A۷

11

AS

26

REVIEW ACTIVITIES

PROJECT NUMBER

AIR FORCE

MISC-0591

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SPECIFICATION ANA	Form Approved Budget Bureau No. 119-R004		
	INSTRUCTION	VS	
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