KSC-STD-E-0011G June 7, 2000 Supersedes KSC-STD-E-0011F April 1989

# ELECTRICAL POWER RECEPTACLES AND PLUGS, STANDARD FOR

# SPACEPORT SERVICES DIRECTORATE

National Aeronautics and Space Administration

John F. Kennedy Space Center

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# ELECTRICAL POWER RECEPTACLES AND PLUGS, STANDARD FOR

Approved:

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Director of Spaceport Services

6/14/00

JOHN F. KENNEDY SPACE CENTER, NASA

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#### ABBREVIATIONS AND ACRONYMS

AH Arrow Hart
AP Appleton
CH Crouse Hinds
dc direct current

GSE ground support equipment

HU Hubbell Hz hertz

KSC John F. Kennedy Space Center

ME Meltric

NCL not catalog listed

NEC National Electrical Code

NEMA National Electrical Manufacturers Association

NFPA National Fire Protection Association

PN Pyle National RS Russellstoll

VT Vantage Technology

WP waterproof WT watertight

#### ELECTRICAL POWER RECEPTACLES AND PLUGS, STANDARD FOR

#### 1. SCOPE

This standard is to be used by the John F. Kennedy Space Center (KSC) design and maintenance organizations for internal operations and as a technical document to specify requirements in KSC design contracts. This standard (1) identifies those electrical power receptacles that shall be used when designing new or modifying existing facilities and identifies receptacles that shall be used for installation on portable ground support equipment, (2) establishes a standard for symbols to be used in drawings, and (3) provides pertinent data for each receptacle. Receptacles included are the 60-hertz (Hz), 400-Hz, and direct current (dc) applications in hazardous and nonhazardous areas. The term "receptacle" in this sense shall be understood to include plugs, which are also identified by this standard.

#### 2. APPLICABLE DOCUMENTS

The following documents form a part of this document to the extent specified herein. When this document is used for procurement, including solicitations, or is added to an existing contract, the specific revision levels, amendments, and approval dates of said documents shall be specified in an attachment to the Solicitation/Statement of Work/Contract.

#### 2.1 Governmental.

#### 2.1.1 Standards.

John F. Kennedy Space Center (KSC), NASA

KSC-STD-E-0002

Hazardproofing of Electrically Energized Equipment, Standard for

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specified procurement functions should be obtained from the procuring activity or as directed by the Contracting Officer.)

#### 2.2 Nongovernmental.

#### National Fire Protection Association (NFPA)

NFPA 70

National Electrical Code (NEC)

(Application for copies should be addressed to the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

#### National Electrical Manufacturers Association (NEMA)

NEMA WD-1

General Purpose Wiring Devices

NEMA WD-6

Wiring Devices – Dimensional Specifica-

(Application for copies should be addressed to the National Electrical Manufacturers Association, 155 East 44th Street, New York, NY 10017)

#### 3. REQUIREMENTS

- 3.1 Grouping. The receptacles have been grouped by intended application, as follows:
  - a. Nonhazardous areas Table 1
  - b. Hazardous areas Class I, Division I, Groups B, C, and D Table 2
  - c. Hazardous areas Class I, Division 1, Groups C and D Table 3
- 3.2 <u>Utilization of Tables</u>. To properly utilize the above-referenced tables, the following explanatory information is given. Note that the voltage rating shown in the table heading may be lower than the manufacturer's stated voltage.
- 3.2.1 <u>Service</u>. The application tables have been subdivided to indicate the service for which each group of receptacles was selected. This service is indicated by voltage, frequency, and number of phases, wires, and poles.
- 3.2.2 <u>Rating.</u> The information shown in the rating column is the maximum allowable amperage of each receptacle, plus other applicable data.

3.2.3 <u>Symbol</u>. - The information shown in the symbol column applies only to facility receptacles and shall be shown on the drawing and in the legend with rating. The legend shall also include all requirements of this standard and referenced documents. As an alternate method, the requirements of this standard may be included in the contract specification, in which case the contract shall be referenced in the legend.

#### 3.2.4 Wiring Diagram - Facility.

- 3.2.4.1 <u>Receptacle</u>. The devices shown in the receptacle column will normally be installed in or on the wall of a fixed structure and fed from a load center or substation. Therefore, this receptacle is normally energized and shall have a female insert. The diagrams in this column show socket arrangement and assigned function such as ground, neutral, and phase.
- 3.2.4.2 <u>Plug.</u> The devices shown in the plug column will mate with the corresponding facility receptacles. The diagrams in this column show pin arrangement and assigned function such as ground, neutral, and phase.
- 3.2.5 Wiring Diagram Ground Support Equipment (GSE).
- 3.2.5.1 <u>Plug.</u> These devices will usually be installed on the same cable as the plug listed under Wiring Diagram Facility. This cable and the plug will serve as an interface between the facility power source and the GSE load. If this cable is mated with the facility receptacle, the contacts of the GSE plug will be energized; therefore, this GSE plug must have a reverse service female insert. The diagrams in this column show pin arrangement and assignment.
- 3.2.5.2 <u>Receptacle</u>. The devices shown in the receptacle column will be installed on GSE and will serve as the connection point for power cables. Since the contacts of these receptacles are not exposed while energized, this GSE receptacle has a male insert. The diagrams in this column show pin arrangement and assignment.
- 3.2.6 <u>Catalog Number</u>. Receptacles and plugs are identified by listing one or more catalog numbers; however, all catalog numbers available for a specific insert and optional mounting configurations are not necessarily listed. The manufacturer's catalog should be consulted for specific technical information on alternative mounting configurations available for the listed receptacles and for the listed plugs. Receptacle and plug configuration other than those listed in this standard may be utilized as determined by specific application. However, no change is permitted in receptacle mating, pin arrangement, and keying for a particular service as listed in this standard by catalog number.
- 3.2.7 <u>Insert Representation</u>. The pins (male inserts) on receptacles and plugs are represented by shaded areas. The sockets (female inserts) on receptacles and plugs are represented by unshaded areas.

- 3.2.8 Reverse Service. In situations where the exposed pins of a plug selected for facility use would be energized when the receptacle and plug are disconnected, reverse-service connectors shall be used. The normal-usage symbol with a subscript letter "R" indicates reverse-service requirement. The plugs and receptacles for GSE use were selected to prevent the exposure of "energized" pins when the plugs and receptacles are not mated. The letters "S" and "P" appear frequently in part numbers. "S" indicates that the plug or receptacle has a female (socket) insert and the contacts are not exposed when this device is not mated to its counterpart. The "P" indicates that the plug or receptacle has a male (pin) insert and the contacts are exposed when the device is not mated to its counterpart.
- 3.2.9 <u>Limitations</u>. For reasons of unavailability, obsolescence, or product improvement, certain devices previously listed (which may remain in service) are no longer listed for new designs. These are shown in table 4.
- 3.3 <u>Abbreviations</u>. See the Abbreviations and Acronyms List for the abbreviations used in the tables.
- 3.4 Request for Waivers. The requirements set forth in this standard are not intended to be totally restrictive. The purpose is to achieve standardization of receptacles and plugs throughout KSC. Receptacles and plugs not listed in this standard that are electrically and physically interchangeable with those identified in this standard may be substituted if they are approved in writing by properly executed waivers. Requests for waivers of any requirements of this standard must be supported by technical justification.
- 3.4.1 Requests. The KSC organization shall direct requests to:

Spaceport Services Directorate Electrical Design Branch JOHN F. KENNEDY SPACE CENTER, NASA Kennedy Space Center, Florida 32899

3.4.2 Construction Contractors. – The KSC construction contractors shall direct requests to the responsible administrative contracting officer:

Procurement Office John F. Kennedy Space Center, NASA Kennedy Space Center, Florida 32899

3.5 Ordering Data. - When this standard is referenced in a technical document in a KSC contract, the title and number of this standard shall be specified as a part of that document. Where NEMA configurations are shown, these devices shall be specification grade as manufactured by Hubbell, Pass and Seymour; General Electric; Arrow-Hart; Bryant; and others.

#### 4. QUALITY ASSURANCE PROVISIONS

Designers preparing design specifications shall include inspection and test requirements to ensure the provisions of the specifications conform to all applicable requirements of this standard. Both the supplier and the construction contractor shall establish a quality control system to perform sufficient inspection and tests of all items of work to ensure compliance with this standard, NEMA standards, and NFPA 70 standard with respect to materials, workmanship, construction, and functional performance. When receptacles are purchased under the provisions of this standard, the following minimum inspection and test requirements shall apply.

#### 4.1 <u>Supplier</u>. - The supplier shall:

- a. Inspect finished work for size, pin arrangement, and quality of workmanship.
- b. Provide protection and controls necessary to prevent damage or deterioration prior to packaging and shipping.
- c. Ensure the quality of the fabricated articles is maintained and damage, deterioration, loss, and substitution are prevented.
- d. Package and mark the finished articles in a manner to ensure safe arrival and ready identification at destination.

#### 4.2 <u>Construction Contractor</u>. - The construction contractor shall:

- a. Upon receipt, inspect to detect damage in transit.
- b. Inspect the complete assembly for proper type, size, and pin configuration.
- c. Provide the protection, periodic inspection, and controls necessary to prevent damage or deterioration during handling or storage.
- d. Conduct operating tests after the receptacle installation is complete and at such time as the Contracting Officer may direct and verify power supply voltage and proper connection of all receptacle pins. These tests shall include (but not be limited to) a continuity test between the receptacle grounding pin and earth ground (or objects known to be adequately grounded to the earth) by a path independent of the power neutral.
- e. Verify phase rotation for each three-phase receptacle by testing with a phase-rotation meter. The phase rotation for all three phase receptacles shall be as shown on the wiring diagram using the ground pin or neutral as a reference.

#### 5. PREPARATION FOR DELIVERY

There are no applicable requirements.

#### 6. NOTES

- 6.1 <u>Special Hazardous Conditions Requirement</u>. In addition to the NEC hazardous locations requirements, refer to KSC-STD-E-0002 for special hazardous location requirements.
- 6.2 <u>Intended Use.</u> This standard is intended for use in the selection of plugs and receptacles for new installation by KSC design and maintenance organizations and by designers performing under KSC contracts. It is not intended that existing plugs and receptacles be modified for the sole purpose of conforming to this standard.

NOTICE: The Government drawings, specifications, and/or data are prepared for the official use by, or on the behalf of, the United States Government. The Government neither warrants these Government drawings, specifications, or other data, nor assumes any responsibility or obligation, for their use for purposes other than the Government project for which they were prepared and/or provided by the Government, or an activity directly related thereto. The fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded, by implication or otherwise, as licensing in any manner the holder or any other person or corporation, nor conveying the right or permission, to manufacture, use, or sell any patented invention that may related thereto.

#### **CUSTODIAN:**

PREPARING ACTIVITY:

NASA – John F. Kennedy Space Center Kennedy Space Center, FL 32899

John F. Kennedy Space Center Spaceport Services Directorate Electrical Design Branch

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles

<u></u>			120V, 6	120V, 60 Hz, single phase, 3 wire, 2 pole	2 pole		
	ON EVE	FACILITY		WIRING DIAGRAM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE	
	KATING	SYMBOL		PLUG	PLUG	RECEPTACLE	·
				8 5		Ø (T 0 )	
	15A duplex (indoor only)		N Z	Z N	) N	Z M	
· · · · · · · · · · · · · · · · · · ·			NEMA 5-15R, duplex	NEMA 5-15P	NEMA 5-15R	NEMA 5-15P	
	Section 15			8 0			γ
	weatherproof thinged flap		M N	Z M	N/A	N/A	
	cover)	W	NEMA 5-15R, duplex	NEMA 5-15P			
l			09				· · · · · · · · · · · · · · · · · · ·
	15A flush floor outlet (indoor only)	•	1	X N	N/A	N/A	
		L.	NEMA 5-15R with mounting strap	NEMA 5-15P			
	TA OF WEW OF DE		TAOT VITTE OF DESCRIPTION OF INCHASE				_

		WIRING DIAGRAM - GSE	RECEPTACLE		N/A			N/A		ΝΆ
or) Receptacles (cont)	oole (cont)	MIRING DI	PLUG		NA		·	N/A		N/A
Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)	120V, 60 Hz, single phase, 3 wire, 2 pole (cont)	AM - FACILITY	PLUG	O M		NEMA L5-15P	8	2	NEMA 5-20P	N NEMA 5-20P
Table 1. Nonhazardo	120V, 60 H	WIRING DIAGRAM - FACILITY	RECEPTACLE	S N N N N N N N N N N N N N N N N N N N	0	NEMA L5-15R, duplex		N P N Z	NEMA 5-20R, duplex	N NEMA 5-20R, duplex
		FACILITY	SYMBOL		Ø	ক্		Ф	20	20 WP
		CNITAG	ONIL CALL		15A duplex (indoor only),		÷	20A duplex (indoor only)		20A duplex weatherproof (hinged flap cover)
!		·		-					<del></del>	· · · · · · · · · · · · · · · · · · ·

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

RATING 20A waterproof locking (indoor only) 30A weathertight
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CH RPC221-127-P04AR Z Q RECEPTACLE A/N ₹ WIRING DIAGRAM - GSE CH RPC121-150-S04AR RPC121-151-S04AR Ø Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont) PLUG ٨ ĕ 120V, 60 Hz, single phase, 3 wire, 2 pole (cont) والجما HU No. HBL63CM61 NEMA L5-30P AH63CR61N RS No. 3750 PLUG WIRING DIAGRAM - FACILITY Ó FACE VIEW OF RECEPTACLES AND PLUGS SHOWN z HU No. HBL63CM70 Ø RECEPTACLE RS No. 3753 NEMA L5-30R AH63CR70 FACILITY SYMBOL 30 20 R TWIST-LOK, CORROSION use F symbol (indoor only), RESISTANT 30A waterproof 30A locking general purpose for floor mounting RATING

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

		120V and 20	120V and 208V, 60 Hz, single phase, 3 wire, 2 pole	wire, 2 pole	
( With a C	FACILITY	<b>X</b>	WIRING DIAGRAM - FACILITY		WIRING DIAGRAM - GSE
SATING	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
		Z			
15A (indoor only)				N/A	ΝΆ
		NEMA 5-15R	NEMA 5-15P		
		208V 6	208V 60 Hz, single phase, 3 wire, 2 pole	, 2 pole	
		(D)			
15A (indoor only)				N/A	N/A
		NEMA 6-15R	NEMA 6-15P		
		0	0		
30A (indoor only)		90	9	ΝΑ	N/A
:		NEMA 6-30R, grounding	NEMA 6-30P, grounding		
FACE VIEW OF RE	ECEPTACL	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN			

		WIRING DIAGRAM - GSE	RECEPTACLE			AIN			N/A			N/A		
r) Receptacles (cont)	2 pole	WIRING DI	PLUG			AIŃ			N/A			N/A		
1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)	208V, 60 Hz, single phase, 4 wire, 2 pole	AM - FACILITY	PLUG	Ø N			NEMA L 14-30P, grounding	9	Z Ø	RS No. DS3316MP000	9	z •	RS No. DS6316MP000	
Table 1. Nonhazardov	208V, 6	WIRING DIAGRAM - FACILITY	RECEPTACLE	N Q		<b>,</b>	NEMA L14-30R, grounding	® \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	N N	RS No. DF3316FRAB0	® X X > 9	N N	RS No. DF6316FRAB0	ES AND PLUGS SHOWN
:		FACILITY	SYMBOL		208	<u></u>	30 1-PH	/g0c/	> <b></b> 1	WT 30		2087	WT 60 1-PH	CEPTACLE
			KATING		202	locking	)	 	30A weathertight			60A weathertight		FACE VIEW OF RECEPTACLES AND PL

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Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

		120/208	120/208V, 60 Hz, 3 phase, 5 wire, 4 pole	4 pole	
SMITAG	FACILITY	WIRING	AM - FACILITY		WIRING DIAGRAM - GSE
	SYMBOL	RECEPTACLE	PLUG	SU⊒P	RECEPTACLE
	(				
30A (indoor only)				<b>V</b> /V	N/A
		NEMA L21-30R	NEMA L21-30P		
		1 / 2	2		
		8C 0000	ØA WOO		
30A weathertight	9	808 W	G W OB	N/A	N/A
	M M	▲▲RS No. DF3516FRAB0	▲▲RS No, DS3516MP000		
		BC N O O O	ØA NOC	N 5 ON N	ØB OB N
60A weathertight		08 C	g & & & & & & & & & & & & & & & & & & &	- 04 03 BC	9
	¥	▲ ARS No. DF6516FRAB0	▲▲RS No. DS6516MP000	PN ZPLML-2220-38SR ZPLML-2420-38SR	PN ZRLP-20-38PR
				▲ KEYING TO BE SET	KEYING TO BE SET AT FACTORY BASED
FACE VIEW OF RE	ECEPTACL	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN		ON VOLITAGE ASSIGNMENT NUMB RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.	ON VOLIAGE ASSIGNIMENT NUMBERS. RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.

RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.

PN ZRLP-C24-49PR KEYING TO BE SET AT FACTORY BASED RECEPTACLE ON VOLTAGE ASSIGNMENT NUMBERS. Ϋ́ ٨ WIRING DIAGRAM - GSE ġĊ Ø ØB ØB B Ø PN ZPLML-32C24-49SR ZPLML-34C24-49SR Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont) PLUG Ϋ́ ¥, 120/208V, 60 Hz, 3 phase, 5 wire, 4 pole (cont) 480V, 60 Hz, 3 phase, 4 wire, 3 pole ▲▲ RS No. DF1516FRAB0 | ▲▲RS No. DS1516MP000 S S ▲ ARS No. DF2516FRAB0 | ▲ ARS No. DS2516MP000 Z RS No. 8014 PLUG WIRING DIAGRAM - FACILITY ØA Ø Ø Ø ğ FACE VIEW OF RECEPTACLES AND PLUGS SHOWN RECEPTACLE RS No. 8031 ØB. င့် ØBġĊ œ Ø FACILITY SYMBOL WT ₹ weathertight weathertight weathertight RATING 200A 100A 20A

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

		480V, 60	480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	e (cont)	
	FACILITY	WIRING DIAGRAM - FACILITY	AM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
KATING	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
		L/C	80 New 180	6 70 10 10 10 10 10 10 10 10 10 10 10 10 10	ØA TIME
30A weathertight	C		9c & c	gc \23 02 MB	ØB OB OB
flap cover	W	▲▲ RS No. DF3404FRAB0	▲ RS No. DS3404MP000	PN ZPLML-1412-22SR ZPLML-1512-22SR	PN ZRLP-12-22PR
60A weathertight	•	ØA OOO OB	ØC OC G	8A 6 02 08 08 08 08 08 08 08 08 08 08 08 08 08	ØB 2 4 1 G
45° angle flap cover	) <del>*</del>	▲ARS No. DF6404FRAB0	▲▲ RS No. DS6404MP000	PN ZPLML-2016-38SR ZPLML-2216-38SR	PN ZRLP-16-38PR
100A weathertight	Ç	BA O O O O O O O O O O O O O O O O O O O	ØC GO	8A 6 02 8B	ØB &
30° angle flap cover	× M	AARS No. DF1404FRAB0	▲▲RS No. DS1404MP000	PN ZPLML-28C20-40SR ZPLML-30C20-40SR	PN ZRLP-C20-40PR
FACE VIEW OF RE	CEPTACL	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN		► ★ KEYING TO BE SET AT FACTORY FON VOLTAGE ASSIGNMENT NUMB RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.	KEYING TO BE SET AT FACTORY BASED ON VOLTAGE ASSIGNMENT NUMBERS. RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.

		WIRING DIAGRAM - GSE	RECEPTACLE	ØB OB	ØC 34 5	PN ZRLP-C24-26PR	The second secon		W.W.			N/A	KEYING TO BE SET AT FACTORY BASED	ON VOLTAGE ASSIGNMENT NUMBERS. RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.
or) Receptacles (cont)	e (cont)	WIRING DIA	PLUG	ØA TO OZ OB	- 74 30 gc	PN ZPLML-36C24-26SR ZPLML-38C24-26SR			Ψ/N			W/A	▲ KEYING TO BE SET	ON VOLTAGE ASSIGNMENT NUMB RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.
Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)	480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	AM - FACILITY	PLUG	ØB WB	90 C	▲▲RS No. DS2404MP000	ØB CO OA	90000	▲▲ RS No. DS2404FP000	ØB W	9 000	▲▲RS No. DS4404MP000		
Table 1. Nonhazardo	480V, 60	WIRING DIAGRAM - FACILITY	RECEPTACLE	ØA NO	000	AARS No. DF2404FRAB0	ØA ØB	000	▲▲RS No. DS2404MRAB0/ DS2CC	ØA WAS	0000	▲ RS No. DF4404FRAB0		ES AND PLUGS SHOWN
		FACILITY	SYMBOL		$\oplus$	¥ .		É	₽ <sub>K</sub>		•	<b>)</b> §		CEPTACLE
		ONITY	אוואס		200A weathertight 30° angle	flap cover		200A watertight	30° angle with cup cap cover	·	400A weathertight	30° angle flap cover		FACE VIEW OF RECEPTACLES AND PL

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Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

		480V, 60	480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	e (cont)	-
()	FACILITY	WIRING DIAGRAM - FACILITY	VAM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
KAING	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
		ØB We WA	0A A A A A A B B		
400A watertight		000000000000000000000000000000000000000	000000		
30° angle	0	)		ĄŻ	N/A
cap cover	WTR	▲▲ RS No. DS4404MRAB0/ DS4CC	▲ RS No. DS4404FP000		
,		120V, 4	120V, 400 Hz, single phase, 3 wire,	, 2 pole	
		o V o	0 0		
20A		Z	Z	N/A	N/A
		HU No. HBL23030 AH23030	HU No. HBL23035B AH23035N		
		N C OZ	N 3 02 0	8 70 3 N	N 3 02 Ø
30A	(F	0			
	) 🖁	CH RPC221-127-S04BR	CH RPC121-150-P04BR RPC121-151-P04RR	CH RPC121-150-S04BR RSC121-151-S04BR	CH RPC221-127-P04BR
				▲ KEYING TO BE SET	KEYING TO BE SET AT FACTORY BASED
FACE VIEW OF R	RECEPTACL	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN		ON VOLTAGE ASSIGNMENT NUME RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.	ON VOLTAGE ASSIGNMENT NOMBERS. RECEPTACLES AND PLUGS HAVE METALLIC SHELLS.

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

			28V dc, 3 wire, 2 pole	(mo) complete (t	
CMITY	FACILITY	WIRING DIAGRAM - FACILITY	AM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
2011.65	SYMBOL	- RECEPTACLE	PLUG	PLUG	RECEPTACLE
30A	(8	NEG O O	NEG POS	POS 2 3 NEG	NEG 3 POS
raintight	3	CH No. ARE3322 ARRC3323 ARE3323 ARRH3322 AREC3322 ARRH3323	CH No. APJ3385	CH No. RPC121-150-S04CR RPC121-151-S04CR	G = G = G = G = G = G = G = G = G = G =
60A	(9)	NEG POS G	NEG G POS	G POS	POS G
<b>)</b>		CH No. ARE6323 ARRC6324 ARE6324 ARRH6323 ARRC6323 ARRH6324	CH No. APJ6385	PN ZPLML-1816-51SR ZPLML-2016-51SR	PN ZRLP-16-51PR
100A raintight	(100	NEG POS G	NEG G	NEG 2 POS	POS 2 3 1
		CH No. AREA10324 AREA10325	CH No. APJ10387	CH RPC533-153-S12AR RPC533-388-S12AR RPC533-389-S12AR	CH RPC633-127-P12AR
FACE VIEW OF RECEPTACLES AND PL	CEPTACI	ES AND PLUGS SHOWN			

Table 1. Nonhazardous Area (Indoor / Outdoor) Receptacles (cont)

	T	Τ	
	WIRING DIAGRAM - GSE	RECEPTACLE	N/A
wire, 3 pole	WIRING DIA	PLUG	N/A
250V, dc; 600V, 60 Hz; single phase, 4 wire, 3 pole	WIRING DIAGRAM - FACILITY	PLUG	G G NO. 7328-78
250V, dc; 60		RECEPTACLE	MA O O G O G O G O G O G O G O G O G O G
	FACILITY	SYMBOL	(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)
	SMITAG		60A waterproof with screw cap

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

GB-B1916-51PL GB-B1516-51PL VT GB-B1716-51PL RECEPTACLE ٧ ₹ WIRING DIAGRAM - GSE Table 2. Hazardous Area, Class I, Division 1, B, C, D Explosionproof Receptacles z VT GB-1016-51SL GB-D1016-51SL PLUG Ϋ́ ₹ 120V, 60 Hz, single phase, 3 wire, 2 pole z CH No. APJ3385-S4 AP No. ECP-2023 ECP-1523 CH No. APJ3385 ENP5151 CH No. ENP5201 PLUG WIRING DIAGRAM - FACILITY AP No. EFSCB175-2023 CH No. FSQC2320-S4 FSQC3320-S4 Z **CH No. ENRC21201** FSQC3320 CH No. FSQC2320 RECEPTACLE z FACILITY SYMBOL E (BCD) E (BCD) E (BCD) rating of receptacle) interlocked interlocked 30A actual interlocked 20A use switch RATING switch switch 30A 20A

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

Table 2. Hazardous Area, Class I, Division 1, Group B, C, D Explosionproof Receptacles (cont)

### PATING   FROILITY   WIRING DIAGRAM - FACILITY   WIRING DIAGRAM - GSE    ### Sand			120/206	120/208V, 60 Hz, 3 phase, 5 wire, 4 pole	4 pole	
E (BCD)  CH No. BHRGSB5DW  E (BCD)  CH No. BHRGSB5DW  E (BCD)  CH No. BHRGSB5DW  CH NO. CH NO	Ç	FACILITY		AM - FACILITY	MIRING DIA	GRAM - GSE
E (BCD)  CH No. BHR3835W  E (BCD)  CH No. BHR385SW  CH No. BHR105SSCW  CH NO. BHR105SCW  CH NO. BHR105SSCW  CH NO. BHR	KALING	SYMBOL		PLUG	PLUG	RECEPTACLE
E (BCD)  CH No. BHR6585DW  E (BCD)  CH No. BHR6585DW  E (BCD)  CH No. BHR6585DW  CH No. BHR6585DW  CH No. BHR10585CW  E (BCD)  CH No. BHR10585CW  E (BCD)  CH No. BHR10585CW  CH No. BHR10585CW  E (BCD)  CH No. BHR10585CW  E (BCD)  CH No. BHR10585CW  CH No. BHP10585CW  CH No. BHR10585CW  CH No. BHP10585CW  CH No. BHP1					50,007	5
E (BCD)  CH No. BHR3583BW  BHR3583BW  BHR3583BW  BHR3583BW  BHR3583BW  BHR3583BW  CH No. BHR6584DW  CH No. BHR10585CW  E (BCD)  CH No. BHR10585CW  CH No. BHP10587CW  CH No. BHP10587CW  CH No. BHP10587CW  CH No. BHP10585CW  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10585CW  C	30A switch	•		ØA A S	\$ THE STATE OF THE	
E (BCD)  CH No. BHR6584DW  BHR6585DW  CH No. BHR6585DW  CH No. BHR6585DW  CH No. BHR10585CW  E (BCD)  CH No. BHR10586CW  E (BCD)  CH No. BHR10586CW  E (BCD)  CH No. BHR10586CW  CH No. BHR10587CW  CH No.	, interiorized	E (BCD)	CH No. BHR3583BW BHR3584BW	CH No. BHP3583BW BHP3585BW	VT GB-1020-36SL GB-D1020-36SL	VT GB-B1720-36PL GB-B1920-36PL GB-B1520-36PL
E (BCD)  CH No. BHR6584DW  BHR6585DW  CH No. BHR10585CW  E (BCD)  CH No. BHR10586CW  E (BCD)  CH No. BHR10586CW  E (BCD)  CH No. BHR10586CW  CH No. BHR10587CW  CH No			205 d	203	000	2
E (BCD)  CH No. BHR6585DW  BHP6587DW  BHP6587DW  CH No. BHP10585CW  E (BCD)  CH No. BHR10586CW  BHP10587CW  BHP10587CW  CH No. BHR10586CW  CH No. BHP10585CW  E (BCD)  CH No. BHP10585CW  CH No. BHP10585CW	60A switch	•	N *	N	24.	
E (BCD)  CH No. BHR10586CW  BHR10586CW  E (BCD)  CH No. BHR10586CW  E (BCD)  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10586CW  CH No. BHR10587CW  CH No. BHR10586CW  CH No. BHR10587CW  CH No. BHR10586CW  CH No. BHR10	neilocked	E (BCD)	CH No. BHR6584DW BHR6585DW	CH No. BHP6585DW BHP6587DW	VT GB-1024-29SL GB-D1024-29SL	VT GB-B1724-29PL GB-B1924-29PL GB-B1524-29PL
E (BCD)  CH No. BHR10586CW  BHR10586CW  CH No. BHR10587CW  CH No. BHR10587CW  CH No. BHR10587CW  CH No. BHR10586CW  CH No. BHR10587CW  CH No. BHR10586CW  CH No. BHR1			\$ 0.00 M	7	000	, T
E (BCD) CH No. BHR10585CW CH No. BHP10585CW VT GB-1028-23SL VT GB-1028-23SL SHP10587CW GB-D1028-23SL	100A switch	•	N N N N N N N N N N N N N N N N N N N			
		E (BCD)	CH No. BHR10585CW BHR10586CW	CH No. BHP10585CW BHP10587CW	VT GB-1028-23SL GB-D1028-23SL	VT GB-B1728-23PL GB-B1928-23PL GB-B1528-23PL

\*\* - OPERATING LEVER FOR SWITCH INTERLOCK

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

RECEPTACLE Ϋ́Z ≸ **₹** WIRING DIAGRAM - GSE Table 2. Hazardous Area, Class I, Division 1, Group B, C, D Explosionproof Receptacles (cont) PLUG Ϋ́ ΥX ۷ 20V, 60 Hz, single phase, 3 wire, 2 pole 208V, 60 Hz, single phase, 3 wire, 2 pole 480V, 60 Hz, 3 phase, 4 wire, 3 pole -ØC Ø VT GB-1016-51PL GB-D1016-51PL BHP3385N CH No. BHP3383N CH No. APJ3485 PLUG WIRING DIAGRAM - FACILITY ပ် ග CH No. BHR3382N BHR3383N GB-B1916-51SL GB-B1516-51SL FSQC3430 **CH No. FSQC2430** VT GB-B1716-51SL RECEPTACLE ź S O ØB-FACILITY SYMBOL E (BCD) E (BCD) E (BCD) 1-PH 208V interlocked (30A actual manufacturer's interlocked RATING 20A use, switch switch rating) 30A 30A

Table 2. Hazardous Area, Class I, Division I, Group B, C, D Explosionproof Receptacles (cont)

		480V, 60	480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	le (cont)	
H	FACILITY		WIRING DIAGRAM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
KAIING	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
		08 00 00 00 00 00 00 00 00 00 00 00 00 0	ØC TO B	0C /201/ G	G 10 8C
30A switch	0	PA AS	- 30 W	ØB SO T	ØA A B
menocked	E (BCD)	CH No. BHRC3482D BHRC3483D	CH No. BHP3483D BHP3485D	VT GB-1016-23SL GB-D1016-23SL	VT GB-81716-23PL GB-81916-23PL GB-81516-23PL
60A		8A 30 08 8	ØB 2 3 G	ØB 2104 G	ØC 4 4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
interlocked	E (BCD)	CH No. BHRC6484D BHRC6485D	CH No. BHP6483D BHP6485D	VT GB-1020-40SL GB-D1020-40SL	VT GB-B1720-40PL GB-B1920-40PL GB-B1520-40PL
100A	(		ØA 3 1 1 2 0 CC	ØB 210 ØC	ØC 12 ØB
switch interlocked	E (BCD)	ØB CH No. BHRC10485D BHRC10486D	** / ØB CH No. BHP10485D BHP10487D	ØA VT GB-1024-39SL GB-D1024-39SL	vt GB-B1724-39PL GB-B1924-39PL GB-B1524-39PL GB-B1524-39PL
FACE VIEW OF RI	ECEPTACI	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN	· .	** - OPERATING LEVER FOR SWITCH INTERLOCK	SWITCH INTERLOCK

NEG ØB GB-B1928-31PL GB-B1528-31PL VT GB-B1728-31PL RECEPTACLE ¥ N WIRING DIAGRAM - GSE Table 2. Hazardous Area, Class I, Division 1, Group B, C, D Explosionproof Receptacles (cont) Ö Q Ø GB-D1028-31SL VT GB-1028-31SL PLUG ₹ 120/208V, 400 Hz, 3 phase, 5 wire, 4 pole 8 480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont) NEG ØB NEG ØB 80 28V dc, 3 wire, 2 pole BHP3585DW CH No. BHP3583DW GB-D1028-31PL VT GB-1028-31PL PLUG WIRING DIAGRAM - FACILITY βÇ ØC~ ပ် ØC ğ CH No. BHRC3583DW BHRC3584DW GB-B1928-31SL GB-B1528-31SL VT GB-B1728-31SL RECEPTACLE ØA-ØB. ØB-FACILITY E (BCD) E (BCD) interlocked RATING switch 200A 30A 30A

\*\* - OPERATING LEVER FOR SWITCH INTERLOCK FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

POS

VT GB-B1716-51PL01 GB-B1916-51PL01 GB-B1516-51PL01

VT GB-1016-51SL01 GB-D1016-51SL01

CH No. APJ3385

WT30HFA-2

CH No. EPCB43632

POS

8 (BCD)

interiocked

breaker

circuit

Pos

POS

RECEPTACLE Ϋ́ Ϋ́ Ϋ́ WIRING DIAGRAM - GSE Table 3. Hazardous Area, Class I, Division 1, Group C, D Explosionproof Receptacles FC - FLAP COVER SC - SCREW COVER PLUG ₹ ΑX Ϋ́ 120V, 60 Hz, single phase, 3 wire, 2 pole 480V, 60 Hz, 3 phase, 4 wire, 3 pole è B ØC -ØA G CH No. APJ6485-S4 RS No. 4237BC RS No. 4466 PLUG WIRING DIAGRAM - FACILITY z CH No. FSQC5640-S4 FACE VIEW OF RECEPTACLES AND PLUGS SHOWN RS No. 4464FC RS No. 4464SC RECEPTACLE RS No. 4233BC င့် ထွ φ ØB FACILITY SYMBOL E (CD) E (CD) E(CD) (60A actual manufacturer's rating) 30A use RATING 20A 30A

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RECEPTACLE Ϋ́ Υ× ≸Ž WIRING DIAGRAM - GSE Table 3. Hazardous Area, Class I, Division 1, Group C, D Explosionproof Receptacles (cont) PLUG Ϋ́Α **∀**X ₹Ž 480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont) NEG S ØB Š 28V dc, 3 wire, 2 pole CH No. DP20468 CH No. APJ6485 RS No. F19071 PLUG WIRING DIAGRAM - FACILITY ØΑ POS POS WT 200-3 CH No. EPC 605-2042-TT 200-3 CH No. EPC 604-2042-FACE VIEW OF RECEPTACLES AND PLUGS SHOWN CH No. FSQC5640 RECEPTACLE RS No. F19070 ØB ØA, NEG-Ö FACILITY E (CD) (m) (E) (8) combination (Group D only) interlocked circuit breaker RATING 200A 60A 30A

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Table 3. Hazardous Area, Class I, Division 1, Group C, D Explosionproof Receptacles (cont)

	WIRING DIAGRAM - GSE	PLUG RECEPTACLE	N/A N/A
zov de, o wile, z. pole (vol.)	NM - FACILITY	PLUG	POS NEG
ζ(	WIRING DIAGRAM - FACILITY	RECEPTACLE	G POS POS POS No. 4263BC
	FACILITY	SYMBOL	E (CD)
	į	KATING	60A

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

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RECEPTACLE ₹ Ž ₹ Ž ΥX WIRING DIAGRAM - GSE PLUG Ϋ́ [Nonhazardous Area (Indoor / Outdoor) Receptacles] **∑** ٨ Table 4. Not to Be Utilized for New Design 120V, 60 Hz, single phase, 3 wire, 2 pole 120/208V, 60 Hz, 3 phase, 4 wire, 4 pole ğΑ RS No. 3128W-78 RS No. 3117W RS No. 3118W PLUG WIRING DIAGRAM - FACILITY ØB / Ö ØC. ØB Ö ΩÇ g ØB ØB FACE VIEW OF RECEPTACLES AND PLUGS SHOWN RS No. 3124W-78 RECEPTACLE RS No. 3113W RS No. 3114W Ø ØA FACILITY SYMBOL  $\geq$ ₹ 30A, weathertight 60A weathertight weathertight RATING 30A

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Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

		LAOIMIAZALUOUS	Livolutazar ucus Arca (muoori / Outuboli ) Neverpraetes	) wedeptacies)	
		, v8UZUSV,	IZU/ZU8V, ou HZ, 3 pnase, 4 wire, 4 pore (cont)	Jale (cont)	
CMFAC	FACILITY	WIRING DIAGRAM - FACILITY	AM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
SALINA	SYMBOL	RECEPTACLE	PLUG	PĽUG	RECEPTACLE
		ØA 102 ØB	ØB Z 1 ØA		
	· · · · · · · · · · · · · · · · · · ·		ØC 30		
100A weathertight	<b>8</b>	N    -	Z	<b>V</b> /V	N/A
	W	RS No. 3134W-72	RS No. 3138W-72		
		ØA 102	ØB ZO A ØA		
2004	(	08/80	ØC 3		
weathertight	7)	N/	+i- → ≥	N/A	N/A
	<u> </u>	RS No. 3144W	RS No. 3148W		
		120/20	120/208V, 60 Hz, 3 phase, 5 wire, 4 pole	4 pole	
		ØB 702	20 08	08A-V03 OF	3 BA
		ØA (OOE 3)	3 E • Ø A	(2 4 0B	ØB 5 1
30A weathertight		GND	OND N N N N N N N N N N N N N N N N N N	OØ T	: To 000
	\$	▲ RS No. 3F0516AB	▲ RS No. 3MP516	CH RPC133-153-S02AR RPC133-388-S02AR RPC133-389-S02AR	CH RPC233-127-P02AR
FACE VIEW OF RI	ECEPTAC	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN	▲ KEYING TO BE SET AT RECEPTACLES AND PL	KEYING TO BE SET AT FACTORY BASED ON VOLTAGE ASS RECEPTACLES AND PLUGS HAVE NON-METALLIC SHELLS	KEYING TO BE SET AT FACTORY BASED ON VOLTAGE ASSIGNMENT NUMBERS. RECEPTACLES AND PLUGS HAVE NON-METALLIC SHELLS

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Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

		WIRING DIAGRAM - GSE	RECEPTACLE		NIA			N/A				N/A	KEYING TO BE SET AT FACTORY BASED ON VOLTAGE ASSIGNMENT NUMBERS.	RECEPTACLES AND PLUGS HAVE NON- METALLIC SHELLS
Receptacles]	ole (cont)	WIRING DI	PLUG	·	NIA			N/A		•		N/A	▲ KEYING TO BE SET ON VOLTAGE ASSI	RECEPTACLES ANI METALLIC SHELLS
[Nonhazardous Area (Indoor / Outdoor) Receptacles]	120/208V, 60 Hz, 3 phase, 5 wire, 4 pole (cont)	AM - FACILITY	PLUG	ØB Te ØA	ØC N GND	▲ RS No. 6MP516	ØC 201 ØB	N GND	▲ RS No. 10MP516	ØC X3 2 WB	GND	N	▲ RS No. DS2516MP000	
[Nonhazardous	120/208V,	WIRING DIAGRAM - FACILITY	RECEPTACLE	ØA 20 ØB	GND NO	▲ RS No. 6F0516AB	ØB OZ ØC	X	▲ RS No. 10F0516AB	ØB 7/2 3 0 ØC	$-\!$	N N N N N N N N N N N N N N N N N N N	▲ RS No. DS2516FRAB0	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN
		FACILITY	SYMBOL			) <sub>M</sub>		•				<b>+</b>		CEPTACLE
		O WE WO			60A	weathertight		100A				200A		FACE VIEW OF RE

Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

		120/208	120/208V, 60 Hz, 3 phase, 5 wire, 4 pole	4 pole	
Claira	FACILITY	WIRING	AM - FACILITY		WIRING DIAGRAM - GSE
KAHING	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
30A weathertight 45° angle	0	GANGE OF BE	ØB 3 4 G	N/A	N/A
nap cover		RS No. 7114 (keys @ 0° & 225°)	RS No. 7318		
60A weathertight 45° angle	•	ØB ZO 3 ØC	ØB Z ØC	N/A	N/A
flap cover		RS No. 7124-78 (keys @ 0° & 227°)	RS No. 7328-78		
100A weathertight	· (S	ØB ZO 3 ØC	ØC 2 9 9 B	A/N	ĄŻ
45' angle flap cover	) <sup>3</sup>	RS No. 7134W-72 (keys @ 0° & 108°)	RS No. 7138W-72	,	
FACE VIEW OF RE	CEPTACL	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN			The second secon

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Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

		WIRING DIAGRAM - GSE	RECEPTACLE	N/A	N/A	N/A
) xxxxxpiacics]		WIRING DIA	PLUG	N/A	N/A	N/A
La comparat dodd a state (strategy) a control of the control of th	460V, 60 HZ, 3 phase, 4 wire, 3 pole (cont)	AM - FACILITY	PLUG	ØC 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ØB 20 148W	ØC 30 G G G G G G G G G G G G G G G G G G
Tromiacaided	48UV, 6U	WIRING DIAGRAM - FACILITY	RECEPTACLE	ØA 1 0 3 0 0 0 C 280°)	ØA 20 3 0 0 B B B C C C C C C C C C C C C C C C	ØA (Reys @ 0° & 75°)
		FACILITY	SYMBOL	<b>⊗</b>	<b></b>	₩ <sup>M</sup>
		RATING		100A weathertight 45° angle flap cover	200A weathertight 45° angle flap cover	200A weathertight 45° angle flap cover WR RS (Reys

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

[INOTHIBAZAIGOUS ATEA (IMMOOF / OUROOF) NECEPTACIES] 480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	WIRING	NOL RECEPTACLE PLUG RECEPTACLE	$\begin{pmatrix} g B \\ 2 \\ 0 \end{pmatrix} \begin{pmatrix} 2 \\ 3 \\ 0 \end{pmatrix}$	BA TO BC BC TO BA NIA NIA	RS No. 7144 RS No. 7148	ØB ZZ 3	$\begin{pmatrix} g_{C} & & & & & & & & & & & & & & & & & & &$	RS No. 7144R RS No. 7148R (keys @ 0° & 75°)	ØB O O O O O O O O O O O O O O O O O O O	ØA O OF 1 I I I I I I I I I I I I I I I I I I	CH No. AREX4042210 CH No. AP404610 AREX4042212 AP404612 STYLE 2 STYLE 2
		SYMBOL RECE	ØB / 2	1	SS.	08 / Z	<del></del>		98		CH No. AF
		SALING		200A weathertight 20° angle	lab cover		200A weathertight 45° angle	flap cover		400A weathertight	•

ACE VIEW OF RECEPTACLES AND PLUGS SHOWN

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Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

															<u> </u>		
		WIRING DIAGRAM - GSE	RECEPTACLE			N/A			THE PROPERTY AND ASSESSMENT OF THE PROPERTY ASSESSMENT OF TH	<b>X</b>	<u> </u>			***	N/A		
Receptacles]	e (cont)	WIRING DI	PLUG			N/A		, 2 pole		V/N			pole !		N/A		
[Nonhazardous Area (Indoor / Outdoor) Receptacles]	480V, 60 Hz, 3 phase, 4 wire, 3 pole (cont)	AM - FACILITY	PLUG	00 00 00 00 00 00 00 00 00 00 00 00 00	ØB O O O	CH No. AP404610 AP404612 STYLE 2	(SUFFIX S22)	120V, 400 Hz, single phase, 3 wire, 2 pole	G ~		<u>z</u>	HU No. HBL23005GB AH23005N	120/208V, 400 Hz, 3 phase, 4 wire, 4 pole	ØA Z A Ø	9 = 000	HU No. HBL25415B AH25415N	
Nonhazardon	480V, 60	WIRING DIAGRAM - FACILITY	RECEPTACLE	200 0	ØA A B	CH No. AREX4042210 AREX4042212 STVI F 2	(SUFFIX S22)	120V, 40	9		<b>)</b>	HU No. HBL23000G AH23000G	120/20	N P P P P P P P P P P P P P P P P P P P	0g/ 1gr	HU No. HBL25403 AH25403	FACE VIEW OF RECEPTACLES AND PLUGS SHOWN
		FACILITY	SYMBOL		(	<b>)</b> "				Q	?	OZ			<u></u>	30	CEPTACL
		SMITAG			400A	weathertight		-		20A					30A		FACE VIEW OF RE

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Table 4. Not to Be Utilized for New Design (cont) [Nonhazardous Area (Indoor / Outdoor) Receptacles]

			[commanded troat (model) companies]	) weeptacace]	
		208V, 6	208V, 60 Hz, single phase, 3 wire, 2 pole	2 pole	
DATING	FACILITY		WIRING DIAGRAM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
DMILLEY	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
		ØA / (//	08 / () / 0A	0A~ () -ØB	ØB. ()
		23.40	2 2 3	\$0°	\$ 7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
30A		- 10 V = -	ØC (1)	20101	80 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		CH No. RPC233-127-S02BR	CH No. RPC233-127-S02BR CH No. RPC133-153-P02BR RPC133-388-P02BR	CH No. RPC133-153-S02BR RPC133-388-S02BR	CH No. RPC233-127-P02BR
	- !		RPC133-389-P02BR	RPC133-389-S02BR	
	[Ha	zardous Area, Class I, Di	vision 1, Group B, C, D	[Hazardous Area, Class I, Division 1, Group B, C, D Explosionproof Receptacles]	les]
		208V, 6	208V, 60 Hz, single phase, 3 wire, 2 pole	2 pole	
CNITAG	FACILITY		WIRING DIAGRAM - FACILITY	WIRING DIA	WIRING DIAGRAM - GSE
DNII V	SYMBOL	RECEPTACLE	PLUG	PLUG	RECEPTACLE
			8		
	2087				
30A			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A/N	N/A
	E (BCD)	VT GB	VT GB-1016-51PL		
		GB-B1516-51SL	CB-DIUI0-51PL		

FACE VIEW OF RECEPTACLES AND PLUGS SHOWN

Table 5. Receptacle/Plug Cross-Reference Chart (Meltric replacements for R&S Series listed which has been discontinued)

R&S	MELTRIC		
3F0516AB	33-30167-MA3		
3MP516	33-31167		
6F0516AB	33-60167-MA6		
6MP516	33-61167		
10F0516AB	33-90167-MA10		
10MP516	33-91167		

#### NOTE

The Meltric plugs and receptacles listed above shall only be used to mate existing Russellstoll plugs/receptacles listed which are no longer available from R&S.

# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

#### **INSTRUCTIONS**

- 1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
- 2. The submitter of this form must complete blocks 4, 5, 6, and 7.
- 3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document or to amend contractual requirements.

RECOMMEND A CHANGE:	1. DOCUMENT NUMBER KSC-STD-E-00		2. DOCUMENT I June 7,		
DOCUMENT TITLE  Electrical Power Receptacles and	Plugs, Standard for				
NATURE OF CHANGE (Identity paragraph number	and include proposed rewrite,	if possible. Attach extra sheets	as needed.)		
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REASON FOR RECOMMENDATION					
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	•		4	•	
SUBMITTER					
. NAME (Last, First, Middle Initial)		b. ORGANIZATION		*	
. ADDRESS (Include Zip Code)	· · · · · · · · · · · · · · · · · · ·	d. TELEPHONE (Include	e Area Code)	7. DATE SUBMITTED	
		·			
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PREPARING ACTIVITY	- · · · · · · · · · · · · · · · · · · ·				
NAME		d. TELEPHONE (Include Area Code)			
Director of Spaceport Services		(321) 867-4564			
ADDRESS (Include Zip Code)		<u></u>			
	Aeronautics and Space	Administration			

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