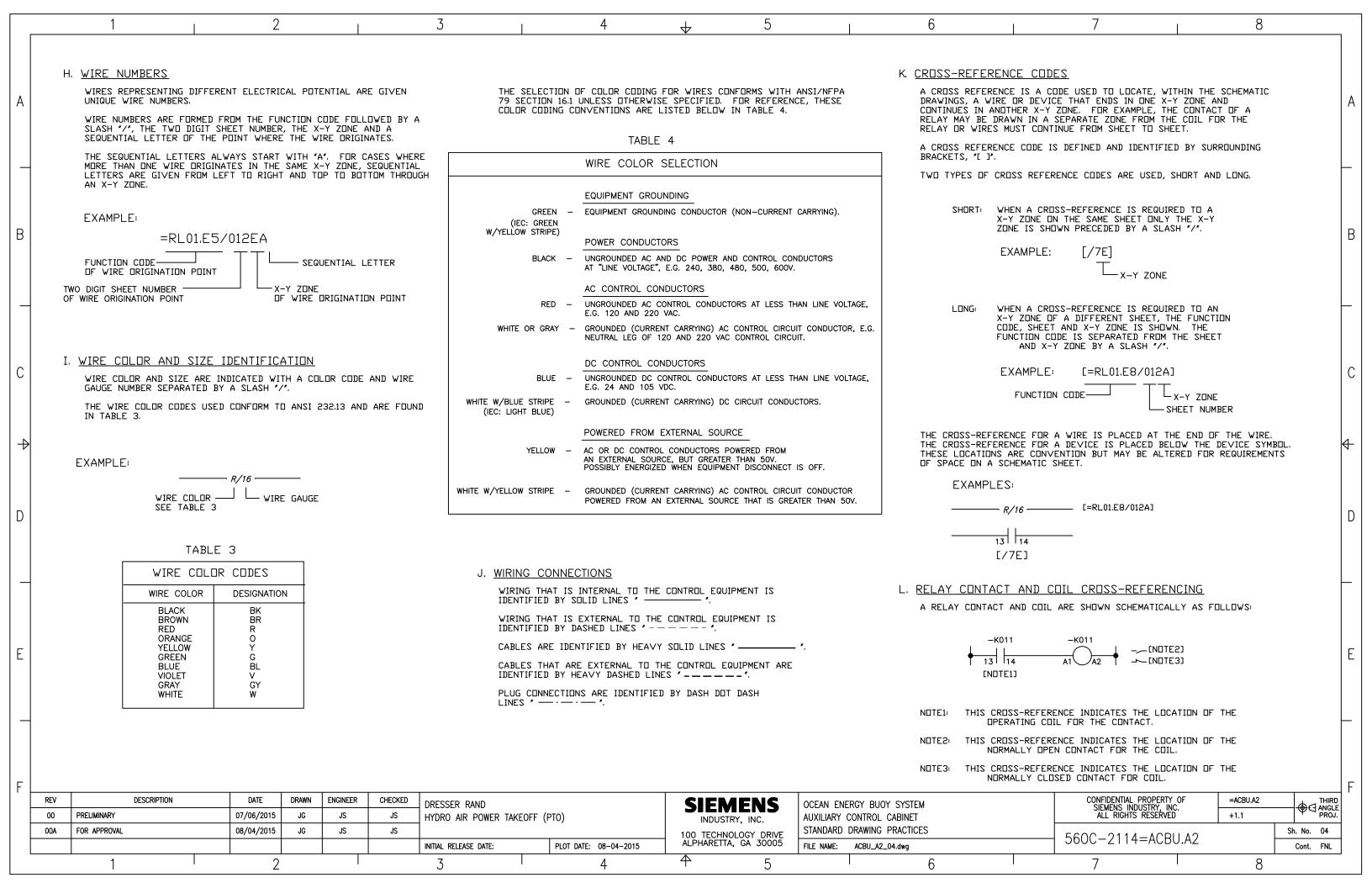
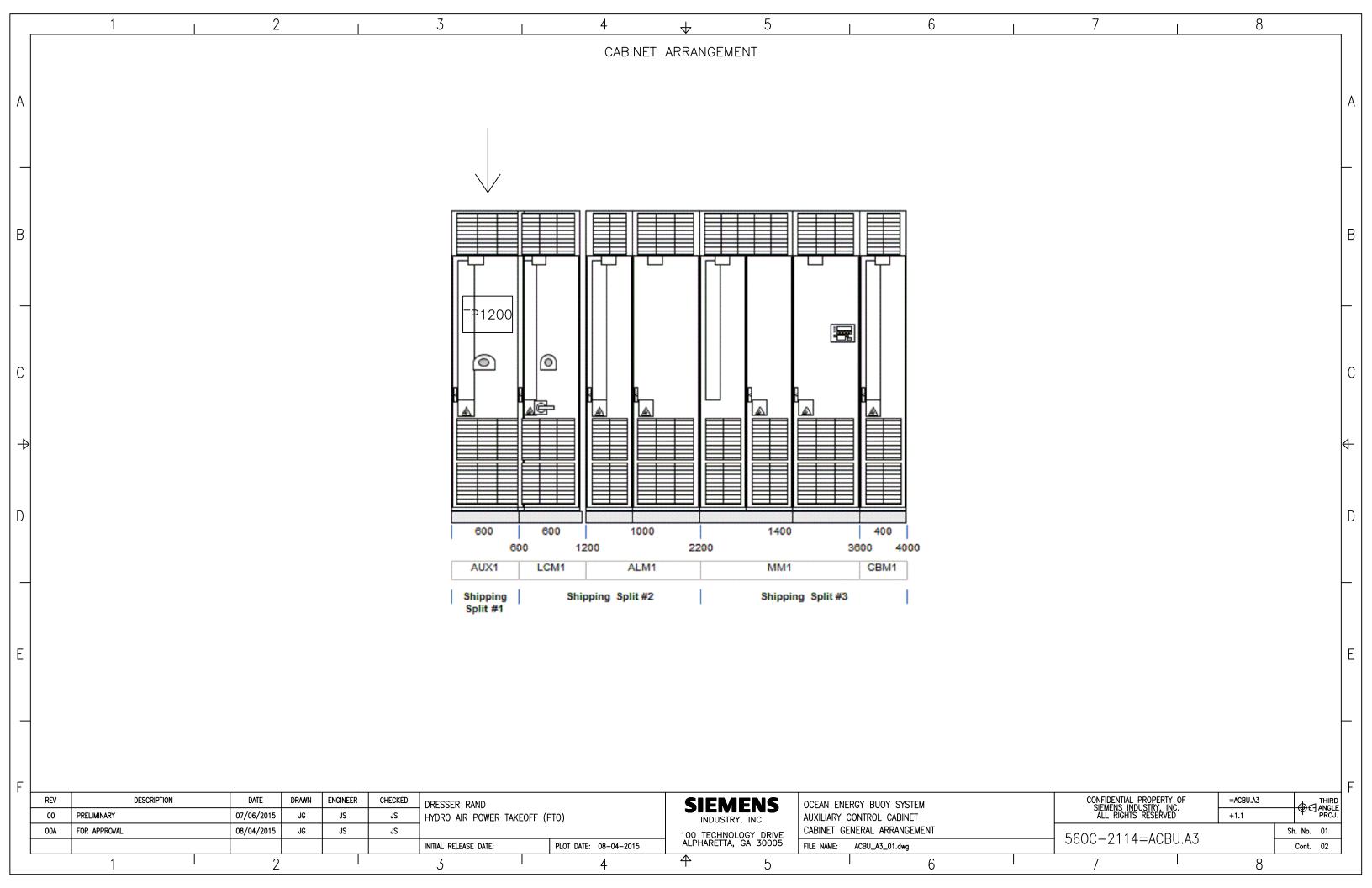
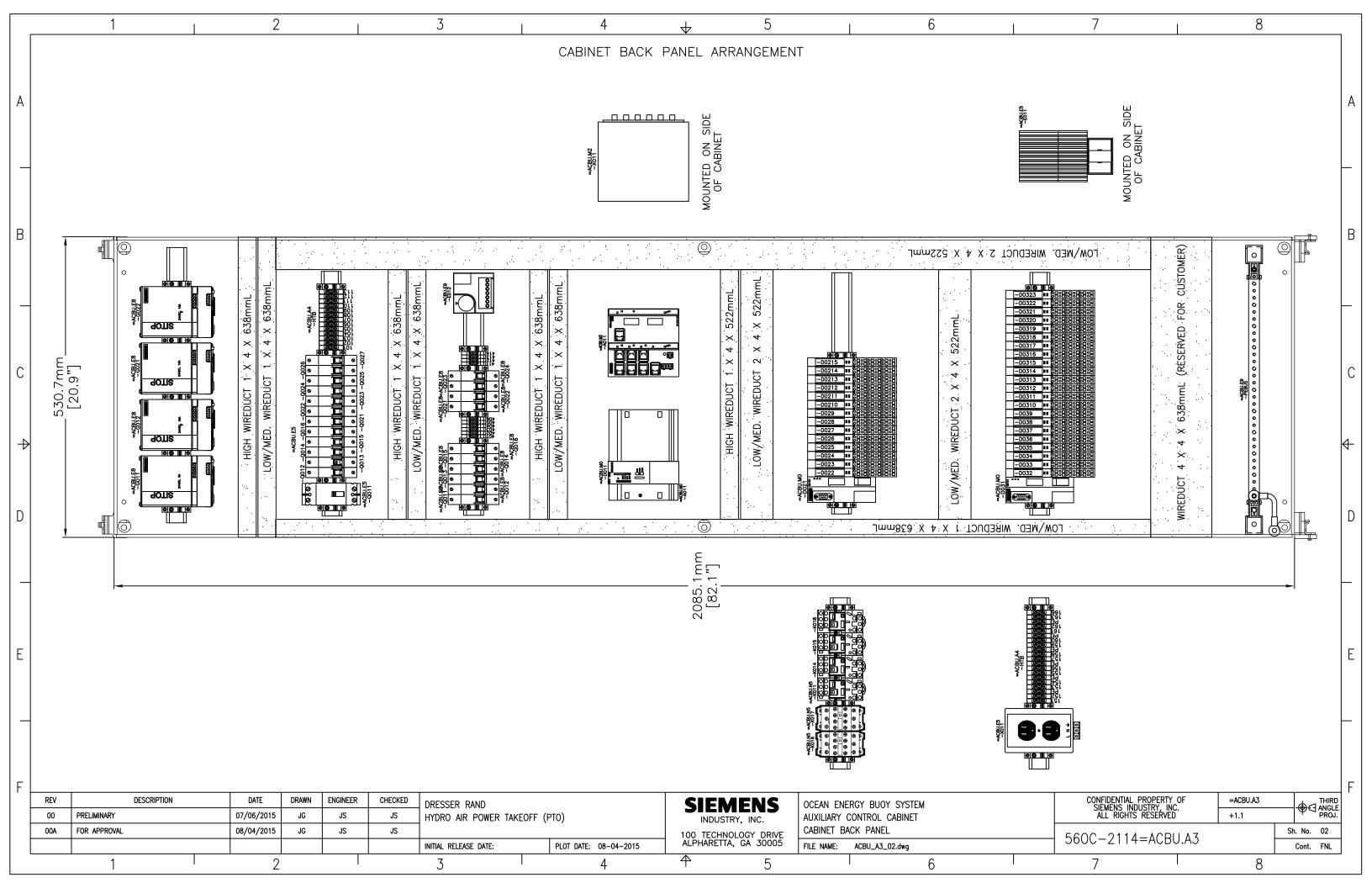


		1 ₁	2				3		4	\downarrow	5		6		7		8	
										TABLE	1							
	E.	LOCATION CODES							LETTER CODE DES	CRIPTIO	NS FOR DEVIC	CE ID	G. <u>TERMII</u>	NAL DESIGNATIO	NS_			
A		THE LOCATION CODE IS THE DESIGNA PHYSICAL LOCATION OF EQUIPMENT OF AREA. THE LOCATION CODE IS DEFINIBLE. SIGN "+".	R DEVICE:	NIHTIW 2	A PLA	NT OR PHY	'SICAL	LETTER CODE	KIND OF ITEM		EX	AMPLES	AND TE	AL BLOCKS (TB's) AF ERMINAL NUMBER BASI L VOLTAGE LEVELS	ED ON VOLTAG	SE LEVEL. TAB		A
		LOCATION CODES ARE UNIQUE AND AR						A	ASSEMBLIES, SUBASSEMBLIES, M	MODULES	RACKS SUBRACKS	COMPUTERS. PCs. PGs	ALWAY:	DLESS OF THE SHEET S ASSIGNED A .A4 FU EXCLUSIVELY FOR TE	JNCTION TYPE.	THE .A4 FUNC	TION TYPE IS	
	LOCATION CODES CONSIST OF TWO LETTERS FOLLOWED BY TWO NUMBERS BUT MAY INCLUDE MORE OR LESS LETTERS AND NUMBERS DEPENDING ON PROJECT REQUIREMENTS AND DEFINITIONS. B					В	TRANSDUCERS, FROM NON-ELECTRICAL QUANTITY TO ELECTRICAL QUANTITY OR THERMO CELL, PHOTOELECTRIC CELL,			THE FUNCTION, LOCATION AND DEVICE ID ARE NOT DISPLAYED FOR EVERY TERMINAL BLOCK SYMBOL BUT ONLY AS REQUIRED FOR CLAIRITY. MOST					_			
		EXAMPLE:						C	VICE-VERSA CAPACITORS		PULSE TRANSDUCEF	RS		AL BLOCK POINTS WI JMBER APPEARS BELO				
В		+AA01						D	BINARY ELEMENTS, DELAY DEVIC STORAGE DEVICES	CES,	DIGITAL I/O MODUL MODULES, DELAY LI ELEMENTS, REGISTE		SYMBOL INDICA	THE TERMS BELD TED THE TERMINAL P XAMPLE BELDWY	CTER MAY BE	ADDED AFTER TH	HE NUMBER TO	В
	F.	DEVICE IDENTIFICATION CODE	<u> </u>					E	MISCELLANEOUS, GENERAL ELECTRICAL EQUIPMENT		LIGHTING DEVICES, DEVICES NOT SPEC THIS TABLE	HEATING DEVICES, DIFIED ELSEWHERE IN						
		EACH DEVICE WITHIN AN ELECTRICAL LOCATION AND DEVICE ID CODE. THE UNIQUELY IDENTIFIES EACH ELECTRIC DRAWING SET.	E COMBINA	TION OF	THESE	THREE COI	DES	F	PROTECTIVE DEVICES		FUSE, OVERVOLTAGE DEVICE, MONITORING CONTROL MODULES	G MODULES, BUS	EXAMF (CONTR	PLE: OL VOLTAGE LEVEL	_ TERMINAL BI	LOCK)		
		THE DEVICE IDENTIFICATION CODE (DEVICE ID or DID) IS A COMBINATION OF LETTERS AND NUMBERS USED TO IDENTIFY INDIVIDUAL ELECTRICAL DEVICES						G	GENERATORS, POWER SUPPLY		ROTATING GENERATO POWER SUPPLY, OS		=RL01.A4					
		WITHIN THE SCHEMATIC DRAWING SET IDENTIFIED BY THE PRECEDING DASH	. THE DE	VICE ID	IS DEF	INED AND	CLS	Н	SIGNALING DEVICES		OPTICAL AND ACOU	ISTIC INDICATORS			+AA01 — (DI	SPLAYED ONLY AN CURRENT SHI		
	THE DEVICE ID CONSISTS OF A LETTER CODE FOLLOWED BY A SERIES OF NUMBERS. THE LETTER CODE IDENTIFIES THE KIND OF DEVICE. TYPICAL							к	RELAYS, CONTACTORS		INDUCTION COIL LI	NDUCTION COIL, LINE TRAP						
		LETTER CODES ARE DEFINED IN TABL		KIND UF	DEVICE	. TIFICAL	-	L	INDUCTORS MOTORS		AC AND DC MOTOR				L ONLY F	CHARACTER, US FOR TIERED IAL BLOCKS	ED	
		THE STANDARD CONVENTION USED FOLLIST THE TWO DIGIT SHEET NUMBER SEQUENTIAL NUMBER. THIS STANDARI	OF THE D	EVICE S'	YMBOL F	FOLLOWED	BY A	N	ANALOG REGULATION BLOCKS			RATORS, REGULATOR,			T = TC M = MI B = BC	JP IDDLE		4
ON PROJECT REQUIREMENTS AND DEFINITIONS.						Р	MEASURING EQUIPMENT, TESTING INDICATING, RECORDING AND INTEGRATING MEASURING DEVICES, SIGNAL GENERATOR, CLOCKS, MONITORS				EX: T118, M118, B118							
		(STANDARD CONVENTION)						Q	SWITCHING DEVICES, DEVICES FOR POWER CIRCUITS	OR	CIRCUIT BREAKER,	DISCONNECTOR			TABLE	2		
	-S011						R			VARIABLE RESISTOR, POTENTIOMETER, SHUNT, HEATING ELEMENTS		TERMINAL BLOCK VOLTAGE LEVELS						
		LETTER CODE -SEE TABLE 1————————————————————————————————————						S	SWITCHES, SELECTORS CONTROL SWITCH, PUSHBUTTON, LIMIT SWITCH, SELECTOR SWITCH TE			TERMINAL						
			(2HE)	E1 017				Т	TRANSFORMERS					(P) >120V, >20A	DE∨ICE ID -PTB	NUMBER RANGE	FUNCTION POWER DISTRIE	
		THE DEVICE ID CODE IS PLACED ABO SHOWN IN THE EXAMPLE BELOW.	IVE THE I	DRAWING	DEVICE	SYMBOL A	20	U	ELECTRICAL TRANSDUCERS		VOLTAGE TO FREQU ANALOG TO DIGITAL CURRENT & VOLTAG	. CONVERTERS,	HIGH MEDIUM LOW	(H) 50V-120V, <20A (M) 15V-50V (L) 0-15V	-HTB -MTB -LTB	101-399 401-699 701-999	CONTROL VOLT BINARY I/O ANALOG I/O	AGES
$ _{F} $			·S011					V	SEMICONDUCTOR DEVICES		ELECTRONIC TUBE, THYRISTOR	DIODE, TRANSISTOR,		- VARIES	-XT,-TB	VARIES	MISC AS NEEDE	<u> </u>
-		-<	-					w	CABLES				SEE IEEE	518, "LEVEL 1-4"				
		THE FUNCTION AND LOCATION CODE O	IF EACH D	EVICE AF	RE ONLY	Y DISPLAYE	ED IF	X	CONNECTING DEVICES		PLUGS, SOCKETS, C	JACKS						
		THEY ARE DIFFERENT FROM THE SHEE REQUIRED, THESE FUNCTION AND LOCA DEVICE ID.					THE	Y	ELECTRICALLY OPERATED MECHA DEVICES	ANICAL	BRAKES, COUPLINGS SOLENOID VALVES,							
								Z	COMPENSATING EQUIPMENT		RC FILTERS, BANDF	PASS FILTER						
											<u> </u>							
	REV	DESCRIPTION	DATE C	DRAWN EN	NGINEER	CHECKED	DRESSER RAND			CIF	MENC	OCEAN ENERGY BUOY S	YSTEM		CONFIDENTI	AL PROPERTY OF	=ACBU.A2	THIRD F
	00	 	06/2015		JS	JS	HYDRO AIR POW	er takeofi	F (PTO)		USTRY, INC.	AUXILIARY CONTROL CAR	BINET	L	SIEMENS ALL RIGI	INDUSTRY, INC. HTS RESERVED	+1.1	→ ANGLE PROJ.
-	00A	FOR APPROVAL 08/	04/2015	JG	JS	JS	INITIAL RELEASE DAT	ŗ.	PLOT DATE: 08-04-2015	100 TEC ALPHAR	HNOLOGY DRIVE L	STANDARD DRAWING PRAFILE NAME: ACBU_A2_03.0			560C-21	14=ACBU.A2	2	Sh. No. 03 Cont. 04
		1	L			<u> </u>	3		4	A	5	TILL INNIL. ACDU_AZ_US.	6		7		<u> </u> 8	CONG. UT
		·					-								•			







						_			
	1	2			•	3		4	<u> </u>
								BILL	OF MATERIAL
		INST	LOC	TAGS	QTY	SUB	CATALOG	MFG	DESCRIPTION
A		=ACBU.E5	+1.1	-Q011	1		CED62B100	SIEMENS	BREAKER ED 2P 100A 600V 100KA LD LUG BREAKER ED 2P 100A
		=ACBU.E5 =ACBU.E5	+1.1 +1.1	-Q012 -Q013	2		5SJ4106-7HG41	SIEMENS	CIRCUIT BREAKER TYPE 5SJ4, BRANCH CIRCUIT PROTECTOR 1-POLE CIRCUIT BREAKER 6AMPS
		=ACBU.E8 =ACBU.E8	+1.1 +1.1	-Q012 -Q013	2		5SY4101-7	SIEMENS	IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA CIRCUIT BREAKER TYPE 5SY4, SUPPLEMENTARY PROTECTOR 1-POLE CIRCUIT BREAKER
		=ACBU.E8	+1.1	-Q011	6		5SY4102-7	SIEMENS	1AMPS IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA CIRCUIT BREAKER TYPE 5SY4, SUPPLEMENTARY PROTECTOR
В		=ACBU.E8 =ACBU.E8 =ACBU.E8 =ACBU.E8 =ACBU.E8	+1.1 +1.1 +1.1 +1.1 +1.1	-Q014 -Q015 -Q016 -Q021 -Q023					1-POLE CIRCUIT BREAKER 2AMPS IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA
		=ACBU.E8 =ACBU.E8	+1.1 +1.1	-Q022 -Q024	2		5SY4106-7	SIEMENS	CIRCUIT BREAKER TYPE 5SY4, SUPPLEMENTARY PROTECTOR 1-POLE CIRCUIT BREAKER 6AMPS IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA
		=ACBU.E5 =ACBU.E5 =ACBU.E5 =ACBU.E5 =ACBU.E5 =ACBU.E5	+1.1 +1.1 +1.1 +1.1 +1.1	-Q014 -Q015 -Q021 -Q022 -Q023 -Q024	6		5SY4110-7	SIEMENS	CIRCUIT BREAKER TYPE 5SY4, SUPPLEMENTARY PROTECTOR 1-POLE CIRCUIT BREAKER 10AMPS IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA
C		=ACBU.E5 =ACBU.E5 =ACBU.E5 =ACBU.E5	+1.1 +1.1 +1.1 +1.1	-Q016 -Q025 -Q026 -Q027	4		5SY4120-7	SIEMENS	CIRCUIT BREAKER TYPE 5SY4, SUPPLEMENTARY PROTECTOR 1-POLE CIRCUIT BREAKER 20AMPS IEC 440VAC, UL/CSA 480/277VAC, C-TRIP, 10KA
		=ACBU.E5	+1.1	-X011	1	*1	5600461	PHOENIX CONTACT	DUPLEX RECEPTACLE, EM-DUO 120/15 120VAC/15A
						*1	CCH-CP12-E7	CORNING	CONNECTOR HOUSING, SC ADAPTER, 12F FIBER OPTIC DUPLEX, 12F, 50um MULTIMODE, OM3/4
\rightarrow		=ACBU.N5 =ACBU.N5 =ACBU.N5	+1.1 +1.1 +1.1	-K014 -K015 -K018	3	*1	782XBXM4L-24D	MAGNECRAFT	DPD 20A ICE CUBE RELAY PLUG IN 24VDC
						*1	70-782D81	MAGNECRAFT	SOCKET 10A
						*1	16-1342	MAGNECRAFT	HOLD DOWN CLIP CLIP N/A
D		=ACBU.N5	+1.1	-K011	1	*1	783XCXM4L-24D	MAGNECRAFT	3POLE PD 15A RELAY PLUG IN 24VDC
						*1	70-783D11-1	MAGNECRAFT	SOCKET 15A
						*1	16-783SC	MAGNECRAFT	HOLD DOWN CLIP CLIP 3POLE DT 15A
		=ACBU.N5 =ACBU.N5	+1.1 +1.1	-K016 -K017	2		3RT1024-3KB40	SIEMENS	CONTACTOR, AC-3 5.5 KW/400 V, DC 24 V, 0.71.25*US, W. VARISTOR, 3-POLE, SIZE SO, CAGE CLAMP CONNECTION TYPE 3RT10 24VDC
$\left \begin{array}{c} 1 \end{array} \right $		=ACBU.E5	+1.1	-E011	1		3105.360	RITTAL	ENCLOSURE INTERNAL HEATER W/ FAN ACCESSORIES 86-100W, 110-240VAC, 50/60Hz
E		=ACBU.E9	+1.1	-E012	1		3110.000	RITTAL	ENCLOSURE INTERNAL THERMOSTAT ACCESSORIES +5+60C
		=ACBU.M2	+1.1	-A011	1		6AG1308-2FL10-4AA3	SIEMENS	SCALANCE X308-2 7 X 10/100MBIT/S RJ45 PORTS, 1 X 100 MBIT/S MULTIMODE SC, LED DIAGNOSTICS, FAULT SIGNAL
F	REV DESCRIPTION DATE	DDAMA	ENGINEED	CHECKED	, 1				CONFIDENTIAL DEODETY OF ACRUAE
	REV DESCRIPTION DATE 00 PRELIMINARY 07/06/2		ENGINEER	CHECKED	DIVL	SSER RA	AND POWER TAKEOFF (PTO)		SIEMENS OCEAN ENERGY BUOY SYSTEM AUXILIARY CONTROL CABINET CONFIDENTIAL PROPERTY OF SIEMENS INDUSTRY, INC. ALL RIGHTS RESERVED **ACBU.A5 +1.1 THIRD ANGLE PROJ.
	00A FOR APPROVAL 08/04/2		JS	JS					INDUSTRY, INC. 100 TECHNOLOGY DRIVE ALPHARETTA, GA 30005 FILE NAME: ACRU AS 0.1 dwg. AUXILIARY CONTROL CABINET BILL OF MATERIAL 560C-2114=ACBU.A5 Cont. 02
[INITIA	al release	DATE: PLO	T DATE: 08-04-2015	A Section of the sect
	1 '	2	<u> </u>		•	5	I	4	4 5 1 6 1 7 1 8

