LIST, FIELD ELECTRICAL 8/22/14

FIELD ELECTRICAL LIST

CUSTOMER: TBD
GEOG JOB: TBD

REFERENCE:
ELEC SCHEMATICS MG129-00900
FIELD ELEC DIAGRAM MG129-00903

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 0
 MKG
 8/22/2014
 MKG
 8/22/2014
 INITIAL RELEASE

 REV
 DR
 DATE
 CK
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 APP
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 DESCRIPTION OF CHANGE

%	DR	MKG	8/22/2014	NAME	FIELD ELECTRICAL L	IST
	СК			CONTRACT		
GE Oil & Gas	APP	MKG	8/22/2014	SHEET 1/6	PART NO MG129-00902	ISSUE 0

LIST, FIELI	D ELECTRICAL						
GENERAL NOT	ES:						
1	See Electrical Schematic.						
2	Need to separate circuit types: Comm., 24 vdc, 120	vac, 480 vac, 410	60 vac				
3	Locate conduit seals near transistion to hazardous I	ocation					
4	Conduit size shown are MINIMUM, larger is allowed	for easier install					
5	Electricians MUST PROTECT sensitive electronics	from wire strands	, metal shavings, debris, water, dirt, electro-st	atic discharg	je (ESD)		
6	Every conductor gets a unique wire # labeled at BO	TH ends within 1"	-2" of terminal.				
7	Motor disconnect means MUST have lockout/tagou	t handles.					
8	Sealtite, IMC, and Rigid conduit allowed						
9	Prefer Belden communication cables						
10	Run # with letter ending (I.e. CP02A, CP02B) indica	tes shared condu	it run with branches at the individual instrumen	ts.			
11	If it makes conduit runs easier, COMM and LOW Po	OWER INSTRUM	ENT circuits ONLY may share conduit.				
12	Thoroughly deburr ALL conduit to prevent wire/cab	le damage durring	g pulling.				
	All conduit runs will have a pulling rope running the						
	Conduit size shown for SHARED runs are at largest						
	Conductor size based on copper 75 deg C type TH\						
	Conductor ampacity based on NEC Table 310-16 p						
17	Wire numbers used: F0001-F0042, F0050-F0059, F	F0064-F0065, F00	069, F0073, F0075, F0077-F0081, F0083-F008	6, F0091-F01	16		
	Parallel conductors allowed if properly sized and de						
	Other NEC Hazardous Location wiring methods allo						
20	Color (GN) indicates addition of green OR green/ye	llow electrical tape	e required to mark wire as a ground (PE) wire.				
	No penetrations on the top of ANY PANELS.						
22	All conduit seals (on skid & field installed by others)	to be packed & p	oured AFTER Guild has approved I/O checkou	ıt.			
23	Run type legend: MV = Medium Voltage 4160V, LV	= Low Voltage 46	OV, CP = Control Power 120V, IN - Instrument	ation 24V, CN	1 = Commun	nications, GN = Ground	
24	Shields for instrumentation cable to be grounded at				NECT end to	to prevent short to chassis.	
25	Wiring methods for equipment in the hazardous local			Methane.			
26	IF APPLICABLE, Intrisically safe (IS in yellow) MUS						
	See also Electrical Schematic LAYOUTS for field co						
	Electrical installer MUST follow conduit spacing guid			pacing.			
	Field and skid wiring ground connection to be wired						
30	Liquid tite flexible connections on circuits > 10 amps						
	Electrical installer MUST follow manuf instructions f		ression lugs with approved crimper and die.				
	RUN# 's with asterisk (*) indicate supplied by others						
33	RUN# 's with bold tag name (i.e. M-330, H/N/G, etc)	are supplied with	n equipment and only require making connection	n at one end	as indicated	I in NOTES column.	

RUN#	SIZE (")	<u>FROM</u>	FROM	<u>TO</u>	TO TERMINAL	WIRE#	COLOR	TYPE	TEMP (C)	SIZE	<u>MFR</u>	EST LG (ft) NOTES	SCHEM
1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TAOE 460 Y	VAC CIDCUIT	TERMINAL							(AWG)			<u>SH</u>
	i	VAC CIRCUIT		D t. D	TD04 OND (DE)	E0004	ON	T1 1\A/\	75	4/0		* D. OTUEDO	
LV01 *	3"	Switch Gear	GND (PE)	Remote Power Panel	TB04-GND (PE)	F0001	GN	THWN	75	1/0		* By OTHERS	6
			T1	i anei	CB-910 L1	F0002	BK	THWN	75	400 MCM			
			T2		CB-910 L2	F0003	BK	THWN	75	400 MCM			
			Т3		CB-910 L3	F0004	BK	THWN	75	400 MCM			
LV02 *	3"	Switch Gear	GND (PE)	Remote Power Panel	TB04-GND (PE)	F0005	GN	THWN	75	1/0		* By OTHERS	6
			T1		CB-910 L1	F0006	BK	THWN	75	400 MCM			
			T2		CB-910 L2	F0007	BK	THWN	75	400 MCM			
			T3		CB-910 L3	F0008	BK	THWN	75	400 MCM			
LV08 *	1.25"	Remote Power Panel	FU-914 TO 916	DRYER REGEN 460	TBD	OTHERS	OTHERS	OTHERS	OTHERS	OTHERS		* By OTHERS. Conduit and conductor design, sizing, and labeling by others.	6
M-330		Remote Power Panel	GND (PE)	Compressor Container	TB04-GND (PE)	F0010	GN	G-GC	90	1/0		Field connections made in REMOTE POWER PANEL	6
			GND (PE)		TB04-GND (PE)	F0010	GN			1/0			
			RVSS-330 T1		M-330 L1	F0011	BK			350 MCM			
			RVSS-330 T2		M-330 L2	F0012	WH			350 MCM			
			RVSS-330 T3		M-330 L3	F0013	RD			350 MCM			
			WIRE NUT		WIRE NUT		YL			8			
M-330		Remote Power Panel	GND (PE)	Compressor Container	TB04-GND (PE)	F0014	GN	G-GC	90	1/0		Field connections made in REMOTE POWER PANEL	6
			GND (PE)		TB04-GND (PE)	F0014	GN			1/0			
			RVSS-330 T1		M-330 L1	F0015	BK			350 MCM			
			RVSS-330 T2		M-330 L2	F0016	WH			350 MCM			
			RVSS-330 T3		M-330 L3	F0017	RD			350 MCM			
M-340		Remote Power	WIRE NUT GND (PE)	Junct Box #933	WIRE NUT GND (PE)	F0019	YL GN	SOOW	90	8		Field connections made in JUNCTION BOX #933	6
		1 01101	OL-340 T1		TB01-1	F0020	BK			8		BOXWOOD	
			OL-340 T2		TB01-2	F0021	WH			8			
			OL-340 T3		TB01-3	F0022	RD			8			
M-520		Remote Power Panel		Junct Box #933	GND (PE)	F0040	GN	SOOW	90	14		Field connections made in JUNCTION BOX #933	6
			OL-520 T1		TB01-4	F0023	BK			14			
			OL-520 T2		TB01-5	F0024	WH			14			
			OL-520 T3		TB01-6	F0025	RD			14			
M-511		Remote Power Panel	GND (PE)	Junct Box #933	GND (PE)	F0041	GN	SOOW	90	14		Field connections made in JUNCTION BOX #933	6
			OL-511 T1		TB01-7	F0026	BK			14			
-			OL-511 T2		TB01-8	F0027	WH			14			
			OL-511 T3		TB01-9	F0028	RD			14			
H-525		Remote Power Panel	GND (PE)	Junct Box #933	GND (PE)	F0042	GN	SOOW	90	14		Field connections made in JUNCTION BOX #933	6
			HC-525 T1		TB01-10	F0029	BK			14			
			HC-525 T2		TB01-11	F0030	WH			14			
			HC-525 T3		TB01-12	F0031	RD			14			

RUN#	<u>SIZE (")</u>	FROM	FROM TERMINAL	<u>TO</u>	TO TERMINAL	WIRE#	COLOR	<u>TYPE</u>	TEMP (C)	SIZE MFR (AWG)	EST LG (ft) NOTES	SCHEM SH
LOW VOLT	TAGE 460 V	AC CIRCUIT								(MANG)		<u> </u>
H-350	AGE 400 V	Remote Power Panel	GND (PE)	Junct Box #933	GND (PE)	F0035	GN	SOOW	90	8	Field connections made in JUNCTION BOX #933	
			CB-350 T1		TB01-13	F0032	BK			8		6
			CB-350 T2		TB01-14	F0033	WH			8		
			CB-350 T3		TB01-15	F0034	RD			8		
M-36X		Remote Power Panel	GND (PE)	Junct Box #933	GND (PE)	F0039	GN	SOOW	90	14	Field connections made in JUNCTION BOX #933	6
			SC-360 T1		TB01-16	F0036	BK			14		
			SC-360 T2		TB01-17	F0037	WH			14		
			SC-360 T3		TB01-18	F0038	RD			14		
CONTROL	POWER 12	20 VAC CIRC	UITS									
CP03 * (optional)	1"	Remote Power Panel	TB02-11	DRYER REGEN	XXX	F0091	RD	THWN	75	14	* By OTHERS. 1" Seal Required	7
			TB02-12		XXX	F0092	RD	THWN	75	14	Recommend 45 deg liq tite elbow at Panel holes to jog over leg foot.	
			TB03-4	BEACON HORN	X1	F0108	RD	THWN	75	14		13
			TB02-N1		X2	F0109	WH	THWN	75	14		
			GND (PE)		GND (PE)	F0110	GN	THWN	75	14		
CP04 * (optional)	1"	Remote Power Panel	TB02-13	ESD-90X(s)	XXX	F0093	RD	THWN	75	14	* By OTHERS. 1" Seal Required	7
			TB02-14		XXX	F0094	RD	THWN	75	14	Recommend 45 deg liq tite elbow at Panel holes to jog over leg foot.	
			GND (PE)		XXX	F0095	GN	THWN	75	14		
			TB03-27	DISP-801/802	XXX	F0096	RD	THWN	75	12	1" Seal Required	7
			TB03-28		XXX	F0097	WH	THWN	75	12		
			GND (PE)	DIOD 000/004	XXX	F0098	GN	THWN	75	12	410 15 1	
			TB03-29	DISP-803/804	XXX	F0114	RD	THWN	75 75	12	1" Seal Required	
			TB03-30		XXX	F0115	WH	THWN	75	12		
11/51/6		11/N1/O	GND (PE)	Opertual Daniel	XXX	F0116	GN	THWN	75	12	CND Field compositions made at	0
H/N/G		H/N/G Connector (outside bottom right Remote Power Panel)	PIN 7 (TB02- GND (PE))	Control Panel	TB01-GND (PE)	F0050	GN/YL	TC	90	14	GND. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom right area.	9
		,	PIN 1 (TB02- H1)		TB01-H1	F0051	BK(1)			14	H1	
			PIN 2 (TB02- H1SW)		TB01-H1SW	F0052	BK(2)			14	H1SW	
			PIN 3 (TB02- N1)		TB01-N1	F0053	BK(3)			14	N1	
			PIN 4 (TB03- H2)		TB05-1	F0054	BK(4)			14	H2	
			PIN 5 (TB03- N2)		TB05-N2	F0055	BK(5)			14	N2	
			PIN 6 (TB02-4)		TB01-4	F0059	BK(6)			14	spare	

RUN#	SIZE (") FROM	FROM	<u>TO</u>	TO TERMINAL	WIRE#	COLOR	TYPE	TEMP (C)	SIZE	<u>MFR</u>	EST LG (ft) NOTES	<u>SCHEM</u>
CONTROL	DOWED 400 VAC CID	TERMINAL							(AWG)			<u>SH</u>
HEAT/ESD	POWER 120 VAC CIR HEAT/ESD Connector (outside botton right Remote	PIN 1 (TB02-1)	Control Panel	TB01-1	F0056	BK(1)	TC	90	14		ESD. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom right area.	7, 9
	Power Panel)	DINI O (TDOO O)		TDOLO	E0057	DI((0)			4.4		500	
		PIN 2 (TB02-2) PIN 3 (TB02-3)		TB01-2 TB01-3	F0057 F0058	BK(2) BK(3)			14 14		ESD H-330	
		PIN 4 (TB02-9)		TB01-9	F0064	BK(4)			14			
		PIN 4 (1B02-9) PIN 5 (TB02-10)		TB01-9	F0064 F0065	GN/YL (WH)			14		Heat Trace N2	
STARTS	STARTS Connector (outside botton right Remote Power Panel)	PIN 1 (TB03-4)	Control Panel	CRLT-915-14	F0069	BK(1)	TC	90	18		LT-915. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom right area.	13
	i ewer ranely	PIN 2 (TB03-8)		CRYY-330-14	F0073	BK(2)			18		M-330	
		PIN 3 (TB03-10)		CRYY-340-14	F0075	BK(3)			18		M-340	
		PIN 4 (TB03-12)		CRYY-520-14	F0077	BK(4)			18		M-520	
		PIN 5 (TB03-13)		TB10-GND (PE)	F0078	BK(5)			18		SPARE	
		PIN 6 (TB03-14)		CRYY-511-14	F0079	BK(6)			18		M-511	
		PIN 7 (TB03- GND (PE))		TB10-GND (PE)	F0113	GN/YL			18			
STATUS'	STATUS' Connector (outside botton right Remote Power Panel)		Control Panel	TB02-46	F0080	GN/YL (RD)	TC	90	18		H1. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom right area.	12
	,	PIN 1 (TB03-16)		CRJSLL-901-A1	F0081	BK(1)			18		JSLL-901	
		PIN 2 (TB03-18)		CRYS-330-A1	F0083	BK(2)			18		YS-330	
		PIN 3 (TB03-19)		CRYS-340-A1	F0084	BK(3)			18		YS-340	
		PIN 4 (TB03-20)		CRYS-520-A1	F0085	BK(4)			18		YS-520	
		PIN 5 (TB03-21)		CRYS-511-A1	F0086	BK(5)			18		YS-511	

RUN#	<u>SIZE (")</u>	FROM	<u>FROM</u> TERMINAL	<u>TO</u>	TO TERMINAL	WIRE#	COLOR	TYPE	TEMP (C)	SIZE MFR (AWG)	EST LG (ft) NOTES	SCHEM SH
COMMUNIC	CATION CI	RCUITS RS-4		NET						<u> </u>		
CM03 * (optional)	1"	Remote Power Panel	RVSS-330 RS485 D-	DISP-801/802	RS485 (-)	F0102	BK	PLTC	105	20	* By OTHERS. Link "G".	7
(optional)		T diloi	RVSS-330 RS485 D+		RS485 (+)	F0103	RD	PLTC	105	20		
			RVSS-330 RS485 SG		RS485 (G)	F0104	SH	PLTC	105	20		
CM04 * (optional)	TBD	DISP-801/802	RS485 (-)	DISP-803/804	RS485 (-)	F0105	BK	PLTC	105	20	* By OTHERS. Link "H".	7
			RS485 (+)		RS485 (+)	F0106	RD	PLTC	105	20		
			RS485 (G)		RS485 (G)	F0107	SH	PLTC	105	20		
												7
RS-485		RS-485 Connector (outside bottom right Remote Power Panel)	RVSS-330 RS485 D-	Control Panel	HMI-921 RS485 (-)	F0099	ВК	PLTC	105	20	Link "C". RS-485. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom left area.	7
			RVSS-330 RS485 D+		HMI-921 RS485 (+)	F0100	RD					
			RVSS-330 RS485 SG		HMI-921 RS485 (G)	F0101	SH					
ENET		ENET Connector (outside bottom right Remote Power Panel)	SC 360	Control Panel	SWITCH-921-3	С	NA	PLTC (CAT5e)			Link "C". Ethernet. Field connections made at REMOTE POWER PANEL via bulkhead electrical connector located outside under bottom left area.	
GROUNDIN	IC CIDCIII	TC										
GN01 *	NA NA	Compressor Container	GND tab 1	Grounding Grid	GND (PE) *	F0111	GN			1/0	* By OTHERS.	6
	NA	Container	GND tab 2		GND (PE) *	F0112	GN			1/0		