

CONTROL PANEL GEN-CP



LOCATION:
GENERATOR STATION

CIRCUIT NO.	EQUIPMENT SERVED/ MARK	CONNECT			DESCRIPTION/FUNCTION	CONDUCTORS IN CABLE	DISCRETE	ANALOG	DIGITAL	INPUT	OUTPUT	REMARKS
		DEVICE	CTL.	INT.								
1	GEN 1	-	X	-	GENSET READY	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
2	GEN 1	-	X	-	GENSET RUNNING	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
3	GEN 1	-	X	-	GENSET FAIL	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
4	GEN 1	-	X	-	GENSET VOLTAGE	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
5	GEN 1	-	X	-	GENSET AMPS	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
6					SPACE	LAN	-	-	X	X	-	
7	GEN 2	-	X	-	GENSET READY	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
8	GEN 2	-	X	-	GENSET RUNNING	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
9	GEN 2	-	X	-	GENSET FAIL	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
10	GEN 2	-	X	-	GENSET VOLTAGE	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
11	GEN 2	-	X	-	GENSET AMPS	LAN	-	-	X	X	-	FROM GENERATOR CONTROL PANEL AT UNIT
12					SPACE	LAN	-	-	X	X	-	
13	GS CP	-	X	-	STEP 1 STEP LOAD AVAILABLE	LAN	-	-	X	X	-	FROM GENERATOR CONTROLLER
14	GS CP	-	X	-	STEP 2 STEP LOAD AVAILABLE	LAN	-	-	X	X	-	FROM GENERATOR CONTROLLER
15	GS CP	-	X	-	STEP 3 STEP LOAD AVAILABLE	LAN	-	-	X	X	-	FROM GENERATOR CONTROLLER
16	GS CP	-	X	-	STEP 4 STEP LOAD AVAILABLE	LAN	-	-	X	X	-	FROM GENERATOR CONTROLLER
17	GS CP	-	X	-	STEP 5 STEP LOAD AVAILABLE	LAN	-	-	X	X	-	FROM GENERATOR CONTROLLER
18					SPACE							
19	ALARM	-	X	-	LEAK DETECTION (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
20	ALARM	-	X	-	LOW LEVEL (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
21	ALARM	-	X	-	OVER-FILL (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
22	ALARM	-	X	-	SUDDEN LOSS (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
23	ALARM	-	X	-	HIGH WATER (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
24	ALARM	-	X	-	DELIVERY NEEDED (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
25	ALARM	-	X	-	TEST FAILURE (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
26	ALARM	-	X	-	TEST NO PERFORMED (VEEDER-ROOT CONTROLLER)	LAN	-	-	X	X	-	FUEL TANK CONTROL PANEL
27					SPACE							
28	ATS	-	X	-	ATS POSITION	1	X	-	X	X	-	
29												
30												

CONTROL PANEL NOTES:

- CONDUIT FOR ANALOG CABLES SHALL TERMINATE IN EQUIPMENT ENCLOSURE AS CLOSE AS POSSIBLE TO THE TERMINALS. ANALOG CABLES SHALL NOT PASS NEAR TO CABLES OR EQUIPMENT OPERATING OVER 24V.
- INTERNAL AND EXTERNAL I/O SHALL BE LANDED ON TERMINAL STRIPS.
- I/O IDENTIFIED ON CONTROL DIAGRAM SHEETS ARE FOR INPUTS AND OUTPUTS EXTERNAL TO THE EQUIPMENT CONTROL PANEL. I/O NECESSARY FOR THE COMPLETE FUNCTIONALITY OF THE EQUIPMENT (INTERNAL I/O) SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED FOR COMPLETE FUNCTIONALITY OF EQUIPMENT AS SPECIFIED AND AS IDENTIFIED BY THE MANUFACTURER. COORDINATE FIELD WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- ALL I/O SHOWN SHALL BE AVAILABLE AT THE MAIN HESS PUMP STATION CONTROL PANEL LOCATED IN THE HESS PUMP STATION.
- THE SYSTEMS INTEGRATOR SHALL PROVIDE I/O CARDS FOR ALL FUTURE EQUIPMENT AND CONNECTIONS AS INDICATED WITHIN THE SCHEDULE IN ADDITION TO THE SPARE REQUIRED IN THE SPECIFICATIONS. NO WIRING WILL BE INSTALLED AS PART OF THIS PROJECT FOR THE FUTURE I/O. ALL FUTURE I/O SHALL BE LABELED AS SHOWN IN SCHEDULE AND SHALL BE WIRED INTERNAL TO THE CONTROL PANEL READY FOR FUTURE CONNECTION TO FIELD EQUIPMENT.

Saved: 02-24-2015 10:21:45 AM by: CJV
 Plot Scale: 1:1 02-24-2015 10:44:14 AM by: CHRIS WALL
 U:\Wichita-Facility\2014\4229\001\Drawings\EO.15 CONTROLS SCHEDULE

	Revision		By	Date
	CITY OF WICHITA, KANSAS CONTROLS SCHEDULE			
	WWTP #2 EMERGENCY POWER PROJECT C.O.W. PROJECT NO. 468-84956			
	 PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	RWW	Job No.	34-14229-001-0042	Sht. E0.15 of 36
Drawn by	CJV	Date	2/23/15	