

1. GENERAL

1.1 References - General

.1 Refer To Section 17010.

1.2 Instrument Index

.1 The following spreadsheet gives an itemized list of the instrumentation included as part of this work.

2. PRODUCTS

Not used in this section

3. EXECUTION

Not used in this section

END OF SECTION



CITY OF WINNIPEG
DEACON BOOSTER PUMPING STATION
U.V. LIGHT DISINFECTION SYSTEM
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Project No. 63672

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RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. DATA SHEET	P&ID DRAWING	LOOP WIRING REF.	WIRING REF.	LOCATION DWG.	SUPPLY CODE
1	0	DD-050-UVT-1	U.V. Transmittance Transmitter	Station Discharge Header DD-050	Contract 1	P02	ILD-TYP5	Calgon	I02	PKG
2	0	DD-050-UVT-2	U.V. Transmittance Transmitter	Station Discharge Header DD-050	Contract 1	P05	ILD-TYP5	Calgon	I02	PKG
3	0	DD-041-SV-1	Normal solenoid valve	Pump #1 discharge control valve	Contract 2	P04	ILD-TYP6 & 10	LCP-1	I02	PKG
4	0	DD-041-SV-2	Emergency solenoid valve	Pump #1 discharge control valve	Contract 2	P04	ILD-TYP6 & 10	LCP-1	I02	PKG
5	0	DD-041-ZSB	Closed limit switch	Pump #1 discharge control valve	Contract 2	P04	ILD-TYP6 & 10	LCP-1	I02	PKG
6	0	DD-042-SV-1	Normal solenoid valve	Pump #2 discharge control valve	Contract 2	P04	ILD-TYP7 & 11	LCP-2	I02	PKG
7	0	DD-042-SV-2	Emergency solenoid valve	Pump #2 discharge control valve	Contract 2	P04	ILD-TYP7 & 11	LCP-2	I02	PKG
8	0	DD-042-ZSB	Closed limit switch	Pump #2 discharge control valve	Contract 2	P04	ILD-TYP7 & 11	LCP-2	I02	PKG
9	0	DD-043-SV-1	Normal solenoid valve	Pump #3 discharge control valve	Contract 2	P04	ILD-TYP8 & 12	LCP-3	I02	PKG
10	0	DD-043-SV-2	Emergency solenoid valve	Pump #3 discharge control valve	Contract 2	P04	ILD-TYP8 & 12	LCP-3	I02	PKG
11	0	DD-043-ZSB	Closed limit switch	Pump #3 discharge control valve	Contract 2	P04	ILD-TYP8 & 12	LCP-3	I02	PKG
12	0	DS-041-ZSB	Closed limit switch	Pump #1 suction isolation valve	17701	P04	ILD-TYP1	LCP-1	I02	CON
13	0	DS-041-ZSD	Open limit switch	Pump #1 suction isolation valve	17701	P04	ILD-TYP1	LCP-1	I02	CON
14	0	DD-041-ZSB-1	Closed limit switch	Pump #1 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-1	I02	PKG
15	0	DD-041-ZSD-1	Open limit switch	Pump #1 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-1	I02	PKG
16	0	DS-042-ZSB	Closed limit switch	Pump #2 suction isolation valve	17701	P04	ILD-TYP1	LCP-2	I02	CON
17	0	DS-042-ZSD	Open limit switch	Pump #2 suction isolation valve	17701	P04	ILD-TYP1	LCP-2	I02	CON
18	0	DD-042-ZSB-1	Closed limit switch	Pump #2 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-2	I02	PKG
19	0	DD-042-ZSD-1	Open limit switch	Pump #2 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-2	I02	PKG
20	0	DS-043-ZSB	Closed limit switch	Pump #3 suction isolation valve	17701	P04	ILD-TYP1	LCP-3	I02	CON
21	0	DS-043-ZSD	Open limit switch	Pump #3 suction isolation valve	17701	P04	ILD-TYP1	LCP-3	I02	CON
22	0	DD-043-ZSB-1	Closed limit switch	Pump #3 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-3	I02	PKG
23	0	DD-043-ZSD-1	Open limit switch	Pump #3 discharge isolation valve	Contract 3	P04	ILD-TYP1	LCP-3	I02	PKG
24	0	DU-060-ZSB-1	Closed limit switch	Intermediate header valve DU-060-IHV-1	Contract 3	P01	ILD-TYP1	E07	I02	PKG
25	0	DU-060-ZSD-1	Open limit switch	Intermediate header valve DU-060-IHV-1	Contract 3	P01	ILD-TYP1	E07	I02	PKG
26	0	DU-060-ZSB-2	Closed limit switch	Intermediate header valve DU-060-IHV-2	Contract 3	P04	ILD-TYP1	E07	I02	PKG
27	0	DU-060-ZSD-2	Open limit switch	Intermediate header valve DU-060-IHV-2	Contract 3	P04	ILD-TYP1	E07	I02	PKG
28	0	DU-060-ZSB-3	Closed limit switch	Intermediate header valve DU-060-IHV-3	Contract 3	P04	ILD-TYP1	E07	I02	PKG
29	0	DU-060-ZSD-3	Open limit switch	Intermediate header valve DU-060-IHV-3	Contract 3	P04	ILD-TYP1	E07	I02	PKG
30	0	DU-060-ZSB-4	Closed limit switch	Intermediate header valve DU-060-IHV-4	Contract 3	P04	ILD-TYP1	E07	I02	PKG
31	0	DU-060-ZSD-4	Open limit switch	Intermediate header valve DU-060-IHV-4	Contract 3	P04	ILD-TYP1	E07	I02	PKG
32	0	DU-060-ZSB-5	Closed limit switch	Intermediate header valve DU-060-IHV-5	Contract 3	P04	ILD-TYP1	E07	I02	PKG
33	0	DU-060-ZSD-5	Open limit switch	Intermediate header valve DU-060-IHV-5	Contract 3	P04	ILD-TYP1	E07	I02	PKG

SUPPLY CODES: CON = Contractor Supply, EX = Existing, TBR = Existing to be Removed, OWN = Owner Supply, PKG = Part of Equipment Package

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CITY OF WINNIPEG
DEACON BOOSTER PUMPING STATION
U.V. LIGHT DISINFECTION SYSTEM
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			INSTRUMENT TYPE	SERVICE	SPEC. DATA SHEET	P&ID DRAWING	LOOP WIRING REF.	WIRING REF.	LOCATION DWG.	SUPPLY CODE
34	0	DU-061-ZSB	Closed limit switch	U.V. Reactor #1100 supply isolation valve	Contract 3	P02	ILD-TYP1	E07	I02	PKG
35	0	DU-061-ZSD	Open limit switch	U.V. Reactor #1100 supply isolation valve	Contract 3	P02	ILD-TYP1	E07	I02	PKG
36	0	DU-062-ZSB	Closed limit switch	U.V. Reactor #1200 supply isolation valve	Contract 3	P03	ILD-TYP1	E07	I02	PKG
37	0	DU-062-ZSD	Open limit switch	U.V. Reactor #1200 supply isolation valve	Contract 3	P03	ILD-TYP1	E07	I02	PKG
38	0	DU-063-ZSB	Closed limit switch	U.V. Reactor #2100 supply isolation valve	Contract 3	P05	ILD-TYP1	E07	I02	PKG
39	0	DU-063-ZSD	Open limit switch	U.V. Reactor #2100 supply isolation valve	Contract 3	P05	ILD-TYP1	E07	I02	PKG
40	0	DU-064-ZSB	Closed limit switch	U.V. Reactor #2200 supply isolation valve	Contract 3	P06	ILD-TYP1	E07	I02	PKG
41	0	DU-064-ZSD	Open limit switch	U.V. Reactor #2200 supply isolation valve	Contract 3	P06	ILD-TYP1	E07	I02	PKG
42	0	DU-065-ZSB	Closed limit switch	U.V. Reactor #2300 supply isolation valve	Contract 3	P07	ILD-TYP1	E07	I02	PKG
43	0	DU-065-ZSD	Open limit switch	U.V. Reactor #2300 supply isolation valve	Contract 3	P07	ILD-TYP1	E07	I02	PKG
44	0	DU-066-ZSB	Closed limit switch	U.V. Reactor #2400 supply isolation valve	Contract 3	P08	ILD-TYP1	E07	I02	PKG
45	0	DU-066-ZSD	Open limit switch	U.V. Reactor #2400 supply isolation valve	Contract 3	P08	ILD-TYP1	E07	I02	PKG
46	0	DU-065-PI	Pressure Gauge	U.V. Reactor #2300 supply line	17701	P07	N/A	N/A	I02	CON
47	0	DD-050-PI-1	Pressure Gauge	Station discharge to Branch 1	17701	P02	N/A	N/A	I02	CON
48	0	DD-050-PI-2	Pressure Gauge	Station discharge to Branch 2	17701	P05	N/A	N/A	I02	CON
49	0	DU-061-FIT	Magnetic Flowmeter	U.V. Reactor #1100 supply line	Contract 4	P02	ILD-TYP2	E07	I02	PKG
50	0	DU-061-FE	Magnetic Flowmeter flow tube	U.V. Reactor #1100 supply line	Contract 4	P02	ILD-TYP2	E07	I02	PKG
51	0	DU-062-FIT	Magnetic Flowmeter	U.V. Reactor #1200 supply line	Contract 4	P03	ILD-TYP2	E07	I02	PKG
52	0	DU-062-FE	Magnetic Flowmeter flow tube	U.V. Reactor #1200 supply line	Contract 4	P03	ILD-TYP2	E07	I02	PKG
53	0	DU-063-FIT	Magnetic Flowmeter	U.V. Reactor #2100 supply line	Contract 4	P05	ILD-TYP2	E07	I02	PKG
54	0	DU-063-FE	Magnetic Flowmeter flow tube	U.V. Reactor #2100 supply line	Contract 4	P05	ILD-TYP2	E07	I02	PKG
55	0	DU-064-FIT	Magnetic Flowmeter	U.V. Reactor #2200 supply line	Contract 4	P06	ILD-TYP2	E07	I02	PKG
56	0	DU-064-FE	Magnetic Flowmeter flow tube	U.V. Reactor #2200 supply line	Contract 4	P06	ILD-TYP2	E07	I02	PKG
57	0	DU-065-FIT	Magnetic Flowmeter	U.V. Reactor #2300 supply line	Contract 4	P07	ILD-TYP2	E07	I02	PKG
58	0	DU-065-FE	Magnetic Flowmeter flow tube	U.V. Reactor #2300 supply line	Contract 4	P07	ILD-TYP2	E07	I02	PKG
59	0	DU-066-FIT	Magnetic Flowmeter	U.V. Reactor #2400 supply line	Contract 4	P08	ILD-TYP2	E07	I02	PKG
60	0	DU-066-FE	Magnetic Flowmeter flow tube	U.V. Reactor #2400 supply line	Contract 4	P08	ILD-TYP2	E07	I02	PKG
61	0	DD-061-ZSB	Closed limit switch	U.V. Reactor #1100 flow control valve	Contract 3	P02	ILD-TYP3	E07	I02	PKG
62	0	DD-061-ZSD	Open limit switch	U.V. Reactor #1100 flow control valve	Contract 3	P02	ILD-TYP3	E07	I02	PKG
63	0	DD-061-ZIT	Valve position transmitter	U.V. Reactor #1100 flow control valve	Contract 3	P02	ILD-TYP3	E07	I02	PKG
64	0	DD-062-ZSB	Closed limit switch	U.V. Reactor #1200 flow control valve	Contract 3	P03	ILD-TYP3	E07	I02	PKG
65	0	DD-062-ZSD	Open limit switch	U.V. Reactor #1200 flow control valve	Contract 3	P03	ILD-TYP3	E07	I02	PKG
66	0	DD-062-ZIT	Valve position transmitter	U.V. Reactor #1200 flow control valve	Contract 3	P03	ILD-TYP3	E07	I02	PKG

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CITY OF WINNIPEG
DEACON BOOSTER PUMPING STATION
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RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. DATA SHEET	P&ID DRAWING	LOOP WIRING REF.	WIRING REF.	LOCATION DWG.	SUPPLY CODE
67	0	DD-063-ZSB	Closed limit switch	U.V. Reactor #2100 flow control valve	Contract 3	P05	ILD-TYP3	E07	I02	PKG
68	0	DD-063-ZSD	Open limit switch	U.V. Reactor #2100 flow control valve	Contract 3	P05	ILD-TYP3	E07	I02	PKG
69	0	DD-063-ZIT	Valve position transmitter	U.V. Reactor #2100 flow control valve	Contract 3	P05	ILD-TYP3	E07	I02	PKG
70	0	DD-064-ZSB	Closed limit switch	U.V. Reactor #2200 flow control valve	Contract 3	P06	ILD-TYP3	E07	I02	PKG
71	0	DD-064-ZSD	Open limit switch	U.V. Reactor #2200 flow control valve	Contract 3	P06	ILD-TYP3	E07	I02	PKG
72	0	DD-064-ZIT	Valve position transmitter	U.V. Reactor #2200 flow control valve	Contract 3	P06	ILD-TYP3	E07	I02	PKG
73	0	DD-065-ZSB	Closed limit switch	U.V. Reactor #2300 flow control valve	Contract 3	P07	ILD-TYP3	E07	I02	PKG
74	0	DD-065-ZSD	Open limit switch	U.V. Reactor #2300 flow control valve	Contract 3	P07	ILD-TYP3	E07	I02	PKG
75	0	DD-065-ZIT	Valve position transmitter	U.V. Reactor #2300 flow control valve	Contract 3	P07	ILD-TYP3	E07	I02	PKG
76	0	DD-066-ZSB	Closed limit switch	U.V. Reactor #2400 flow control valve	Contract 3	P08	ILD-TYP3	E07	I02	PKG
77	0	DD-066-ZSD	Open limit switch	U.V. Reactor #2400 flow control valve	Contract 3	P08	ILD-TYP3	E07	I02	PKG
78	0	DD-066-ZIT	Valve position transmitter	U.V. Reactor #2400 flow control valve	Contract 3	P08	ILD-TYP3	E07	I02	PKG
79	0	DD-050-ZSB-1	Closed limit switch	Dischrg header valve DD-050-DHV-1	Contract 3	P01	ILD-TYP1	E07	I02	PKG
80	0	DD-050-ZSD-1	Open limit switch	Dischrg header valve DD-050-DHV-1	Contract 3	P01	ILD-TYP1	E07	I02	PKG
81	0	DD-050-ZSB-2	Closed limit switch	Dischrg header valve DD-050-DHV-2	Contract 3	P01	ILD-TYP1	E07	I02	PKG
82	0	DD-050-ZSD-2	Open limit switch	Dischrg header valve DD-050-DHV-2	Contract 3	P01	ILD-TYP1	E07	I02	PKG
83	0	DD-050-ZSB-3	Closed limit switch	Dischrg header valve DD-050-DHV-3	Contract 3	P04	ILD-TYP1	E07	I02	PKG
84	0	DD-050-ZSD-3	Open limit switch	Dischrg header valve DD-050-DHV-3	Contract 3	P04	ILD-TYP1	E07	I02	PKG
85	0	DD-050-ZSB-4	Closed limit switch	Dischrg header valve DD-050-DHV-4	Contract 3	P04	ILD-TYP1	E07	I02	PKG
86	0	DD-050-ZSD-4	Open limit switch	Dischrg header valve DD-050-DHV-4	Contract 3	P04	ILD-TYP1	E07	I02	PKG
87	0	DD-050-ZSB-5	Closed limit switch	Dischrg header valve DD-050-DHV-5	Contract 3	P04	ILD-TYP1	E07	I02	PKG
88	0	DD-050-ZSD-5	Open limit switch	Dischrg header valve DD-050-DHV-5	Contract 3	P04	ILD-TYP1	E07	I02	PKG
89	0	DUH-610-XF	Fail status contact	Air Handling Unit #1	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
90	0	DUH-610-XA	Alarm status contact	Air Handling Unit #1	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
91	0	DUH-610-XM	Unit running status contact	Air Handling Unit #1	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
92	0	DUH-620-XF	Fail status contact	Air Handling Unit #2	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
93	0	DUH-620-XA	Alarm status contact	Air Handling Unit #2	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
94	0	DUH-620-XM	Unit running status contact	Air Handling Unit #2	Contract 6	P10	ILD-TYP9	M05 & M06	I03	PKG
95	0	DU- 061-FI-1100	Reactor flow rate input	U.V. Reactor #1100 CPP Panel	Contract 1	P03	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
96	0	DU- 061-XS-1087	Reactor remote start/stop input	U.V. Reactor #1100 CPP Panel	Contract 1	P03	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
97	0	DU- 061-YS-1084	Reactor system ready output	U.V. Reactor #1100 CPP Panel	Contract 1	P03	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
98	0	DU- 061-FI-1085	Reactor system warning output	U.V. Reactor #1100 CPP Panel	Contract 1	P03	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
99	0	DU- 061-FI-1086	Reactor system shutdown output	U.V. Reactor #1100 CPP Panel	Contract 1	P03	ILD-TYP4	E05 & Calgon	I02 & I03	PKG

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RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. DATA SHEET	P&ID DRAWING	LOOP WIRING REF.	WIRING REF.	LOCATION DWG.	SUPPLY CODE
100	0	DU- 062-FI-1200	Reactor flow rate input	U.V. Reactor #1200 CPP Panel	Contract 1	P04	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
101	0	DU- 062-XS-1187	Reactor remote start/stop input	U.V. Reactor #1200 CPP Panel	Contract 1	P04	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
102	0	DU- 062-YS-1184	Reactor system ready output	U.V. Reactor #1200 CPP Panel	Contract 1	P04	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
103	0	DU- 062-FI-1185	Reactor system warning output	U.V. Reactor #1200 CPP Panel	Contract 1	P04	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
104	0	DU- 062-FI-1186	Reactor system shutdown output	U.V. Reactor #1200 CPP Panel	Contract 1	P04	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
105	0	DU- 063-FI-2100	Reactor flow rate input	U.V. Reactor #2100 CPP Panel	Contract 1	P06	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
106	0	DU- 063-XS-2087	Reactor remote start/stop input	U.V. Reactor #2100 CPP Panel	Contract 1	P06	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
107	0	DU- 063-YS-2084	Reactor system ready output	U.V. Reactor #2100 CPP Panel	Contract 1	P06	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
108	0	DU- 063-FI-2085	Reactor system warning output	U.V. Reactor #2100 CPP Panel	Contract 1	P06	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
109	0	DU- 063-FI-2086	Reactor system shutdown output	U.V. Reactor #2100 CPP Panel	Contract 1	P06	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
110	0	DU- 064-FI-2200	Reactor flow rate input	U.V. Reactor #2200 CPP Panel	Contract 1	P07	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
111	0	DU- 064-XS-2187	Reactor remote start/stop input	U.V. Reactor #2200 CPP Panel	Contract 1	P07	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
112	0	DU- 064-YS-2184	Reactor system ready output	U.V. Reactor #2200 CPP Panel	Contract 1	P07	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
113	0	DU- 064-FI-2185	Reactor system warning output	U.V. Reactor #2200 CPP Panel	Contract 1	P07	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
114	0	DU- 064-FI-2186	Reactor system shutdown output	U.V. Reactor #2200 CPP Panel	Contract 1	P07	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
115	0	DU- 065-FI-2300	Reactor flow rate input	U.V. Reactor #2300 CPP Panel	Contract 1	P08	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
116	0	DU- 065-XS-2387	Reactor remote start/stop input	U.V. Reactor #2300 CPP Panel	Contract 1	P08	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
117	0	DU- 065-YS-2384	Reactor system ready output	U.V. Reactor #2300 CPP Panel	Contract 1	P08	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
118	0	DU- 065-FI-2385	Reactor system warning output	U.V. Reactor #2300 CPP Panel	Contract 1	P08	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
119	0	DU- 065-FI-2386	Reactor system shutdown output	U.V. Reactor #2300 CPP Panel	Contract 1	P08	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
120	0	DU- 066-FI-2400	Reactor flow rate input	U.V. Reactor #2400 CPP Panel	Contract 1	P09	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
121	0	DU- 066-XS-2487	Reactor remote start/stop input	U.V. Reactor #2400 CPP Panel	Contract 1	P09	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
122	0	DU- 066-YS-2484	Reactor system ready output	U.V. Reactor #2400 CPP Panel	Contract 1	P09	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
123	0	DU- 066-FI-2485	Reactor system warning output	U.V. Reactor #2400 CPP Panel	Contract 1	P09	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
124	0	DU- 066-FI-2486	Reactor system shutdown output	U.V. Reactor #2400 CPP Panel	Contract 1	P09	ILD-TYP4	E05 & Calgon	I02 & I03	PKG
125	0	DU-916-EAH	Surge suppressor	U.V. PLC power supply	17500	P02	ILD-TYP13	N/A	I03	CON
126	0	DUZ-917-TAH	U.V. system transformer high temp.	U.V. system transformer high temp.	16322	P10	ILD-TYP13	N/A	I03	CON
127	0	DUZ-917-TAHH	U.V. system transformer high-high temp.	U.V. system transformer high-high temp.	16322	P10	ILD-TYP13	N/A	I03	CON
128	0									
129	0									
130	0									
131	0									
132	0									

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			INSTRUMENT TYPE	SERVICE	SPEC. DATA SHEET	P&ID DRAWING	LOOP WIRING REF.	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
133	0										