

DCS INPUT/OUTPUT INDEX

NO.	REV. NO.	TAG NAME					DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION					
		PCU		DEVICE			FUNCTION	SERVICE		ENG. UNITS	SCALE / SP LOW-HIGH	ALARMS		I/O POINT TYPE	I/O POINT NO.
		AREA	PNL	TAG								LO / 0	HI / 1		
1	0	W	26	W695	PAH		High air pressure alarm	Ferric Chloride unloading air pressure	CI1.01	Kpa	175	Alarm	Off	DI	
2	0	W	26	W695	PIT		Air pressure transmitter	Ferric Chloride unloading air pressure	CI1.01	Kpa	0-350	105	175	AI	
3	0	W	26	W695	VD		Valve open/close control	Ferric Chloride unloading air supply valve	CI1.01					DO	
4	0	W	26	W695	YS		Remote Selected	Ferric Chloride unloading air supply valve	CI1.01					DI	
5	0	W	26	W696	HS	1	Start unloading	Ferric Chloride rail unloading panel	CI1.01					DI	
6	0	W	26	W696	HS	2	Emergency Shutdown	Ferric Chloride rail unloading panel	CI1.01			ESD	Off	DI	
7	0	W	26	W696	HS	4	Emergency Shutdown	Ferric Chloride storage area	CI2.01			ESD	Off	DI	
8	0	W	26	W696	YA		Stop unloading audible signal	Ferric Chloride rail unloading panel	CI1.01					DO	
9	0	W	26	W696	YL	2	Ready to unload	Ferric Chloride rail unloading panel	CI1.01					DO	
10	0	W	26	W697	HS	1	Start unloading	Ferric Chloride truck unloading panel	CI1.01					DI	
11	0	W	26	W697	HS	2	Emergency Shutdown	Ferric Chloride truck unloading panel	CI1.01			ESD	Off	DI	
12	0	W	26	W697	YA		Stop unloading audible signal	Ferric Chloride truck unloading panel	CI1.01					DO	
13	0	W	26	W697	YL	2	Ready to unload	Ferric Chloride truck unloading panel	CI1.01					DO	
14	0	W	26	W700	TA		Fire alarm signal	Ferric Chloride area	CI4.01			Alarm	Normal	DI	
15	0	W	26	W700	UA		Fire alarm panel Fault	Ferric Chloride area	CI4.01			Alarm	Normal	DI	
16	0	W	26	W701	FQ		Flow totalizer pulse	Ferric Chloride unloading	CI2.01	TBA	TBA	TBA	TBA	DI	
17	0	W	26	W701	FT		Flow rate	Ferric Chloride unloading	CI2.01	TBA	TBA	TBA	TBA	AI	
18	0	W	26	W702	FS	1	Water flow detected	Ferric unloading emerg. Shower/eyewash	CI1.01			Alarm	Off	DI	
19	0	W	26	W702	FS	2	Water flow detected	Ferric storage emerg. Shower/eyewash	CI2.01			Alarm	Off	DI	
20	0	W	26	W703	ZS	1	Motion detected	Ferric Chloride rail shelter	CI4.01			Motion	Normal	DI	
21	0	W	26	W703	ZS	3	East door open	Ferric Chloride rail shelter	CI4.01			Open	Closed	DI	
22	0	W	26	W703	ZS	4	West door open	Ferric Chloride rail shelter	CI4.01			Open	Closed	DI	
23	0	W	26	W704	ZS	1	Motion detected	Ferric Chloride storage area	CI4.01			Motion	Normal	DI	
24	0	W	26	W704	ZS	2	Door open	Ferric Chloride storage area	CI4.01			Open	Closed	DI	
25	0	W	26	W705	VB		Valve close command	Ferric storage tank #710 supply valve	CI2.01			Off	FTC*	DO	
26	0	W	26	W705	VD		Valve open command	Ferric storage tank #710 supply valve	CI2.01			Off	FTO*	DO	
27	0	W	26	W705	YS		Remote Selected	Ferric storage tank #710 supply valve	CI2.01					DI	
28	0	W	26	W705	ZSB		Valve closed limit	Ferric storage tank #710 supply valve	CI2.01			Off	FTC*	DI	
29	0	W	26	W705	ZSD		Valve open limit	Ferric storage tank #710 supply valve	CI2.01			Off	FTO*	DI	
30	0	W	26	W706	VB		Valve close command	Ferric storage tank #720 supply valve	CI2.01			Off	FTC*	DO	

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		AREA	PNL	TAG	LO / 0	HI / 1									
31	0	W	26	W706	VD	Valve open command	Ferric storage tank #720 supply valve	CI2.01			Off	FTO*	DO		
32	0	W	26	W706	YS	Remote Selected	Ferric storage tank #720 supply valve	CI2.01					DI		
33	0	W	26	W706	ZSB	Valve closed limit	Ferric storage tank #720 supply valve	CI2.01			Off	FTC*	DI		
34	0	W	26	W706	ZSD	Valve open limit	Ferric storage tank #720 supply valve	CI2.01			Off	FTO*	DI		
35	0	W	26	W710	LF	Level transmitter fault	Ferric storage tank #710	CI2.01				Alarm	DI		
36	0	W	26	W710	LT 1	Liquid level indication	Ferric storage tank #710	CI2.01	M	TBA	TBA	TBA	AI		
37	0	W	26	W710	LT 2	Liquid level indication	Ferric storage tank #710	CI2.01	M	TBA	TBA	TBA	AI		
38	0	W	26	W715	VB	Valve close command	Ferric storage tank #710 discharge valve	CI3.01			Off	FTC*	DO		
39	0	W	26	W715	VD	Valve open command	Ferric storage tank #710 discharge valve	CI3.01			Off	FTO*	DO		
40	0	W	26	W715	YS	Remote Selected	Ferric storage tank #710 discharge valve	CI3.01					DI		
41	0	W	26	W715	ZSB	Valve closed limit	Ferric storage tank #710 discharge valve	CI3.01			Off	FTC*	DI		
42	0	W	26	W715	ZSD	Valve open limit	Ferric storage tank #710 discharge valve	CI3.01			Off	FTO*	DI		
43	0	W	26	W720	LF	Level transmitter fault	Ferric Chloride rail unloading panel	CI2.01				Alarm	DI		
44	0	WC	26	W720	LT 1	Liquid level indication	Ferric storage tank #720	CI2.01	M	TBA	TBA	TBA	AI		
45	0	WC	26	W720	LT 2	Liquid level indication	Ferric storage tank #720	CI2.01	M	TBA	TBA	TBA	AI		
46	0	WC	26	W725	VB	Valve close command	Ferric storage tank #720 discharge valve	CI3.01			Off	FTC*	DO		
47	0	WC	26	W725	VD	Valve open command	Ferric storage tank #720 discharge valve	CI3.01			Off	FTO*	DO		
48	0	WC	26	W725	YS	Remote Selected	Ferric storage tank #720 discharge valve	CI3.01					DI		
49	0	WC	26	W725	ZSB	Valve closed limit	Ferric storage tank #720 discharge valve	CI3.01			Off	FTC*	DI		
50	0	WC	26	W725	ZSD	Valve open limit	Ferric storage tank #720 discharge valve	CI3.01			Off	FTO*	DI		
51	0	WC	26	W731	LAH	High level switch	Ferric Chloride spill containment sump	CI2.01			Alarm	Normal	DI		
52	0	WC	26	W740	FQ	Flow totalizer pulse	Ferric Chloride dosing pump W740	CI3.01	TBA	TBA	TBA	TBA	DI		
53	0	WC	26	W740	FT	Flow rate	Ferric Chloride dosing pump W740	CI3.01	TBA	TBA	TBA	TBA	AI		
54	0	WC	26	W740	MF	Failed	Ferric Chloride dosing pump W740	CI3.01			Failed	Normal	DI		
55	0	WC	26	W740	MM	Running	Ferric Chloride dosing pump W740	CI3.01					DI		
56	0	WC	26	W740	MN	Start/stop control	Ferric Chloride dosing pump W740	CI3.01					DO		
57	0	WC	26	W740	PAH	High pressure alarm	Ferric Chloride dosing pump W740 Discharge	CI3.01			Alarm	Off	DI		
58	0	WC	26	W740	SC	Speed control	Ferric Chloride dosing pump W740	CI3.01	RPM	TBA			AO		
59	0	WC	26	W740	ST	Speed indication	Ferric Chloride dosing pump W740	CI3.01	RPM	TBA			AI		
60	0	WC	26	W740	YS	Computer selected	Ferric Chloride dosing pump W740	CI3.01					DI		

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		AREA	PNL	TAG							LO / 0	HI / 1		
61	0	WC	26	W750	FQ	Flow totalizer pulse	Ferric Chloride dosing pump W750	CI3.01	TBA	TBA	TBA	TBA	DI	
62	0	WC	26	W750	FT	Flow rate	Ferric Chloride dosing pump W750	CI3.01	TBA	TBA	TBA	TBA	AI	
63	0	WC	26	W750	MF	Failed	Ferric Chloride dosing pump W750	CI3.01			Failed	Normal	DI	
64	0	WC	26	W750	MM	Running	Ferric Chloride dosing pump W750	CI3.01					DI	
65	0	WC	26	W750	MN	Start/stop control	Ferric Chloride dosing pump W750	CI3.01					DO	
66	0	WC	26	W750	PAH	High pressure alarm	Ferric Chloride dosing pump W750 Discharge	CI3.01			Alarm	Off	DI	
67	0	WC	26	W750	SC	Speed control	Ferric Chloride dosing pump W750	CI3.01	RPM	TBA			AO	
68	0	WC	26	W750	ST	Speed indication	Ferric Chloride dosing pump W750	CI3.01	RPM	TBA			AI	
69	0	WC	26	W750	YS	Computer selected	Ferric Chloride dosing pump W750	CI3.01					DI	
70	0	WC	26	W760	FQ	Flow totalizer pulse	Ferric Chloride dosing pump W760	CI3.01	TBA	TBA	TBA	TBA	DI	
71	0	WC	26	W760	FT	Flow rate	Ferric Chloride dosing pump W760	CI3.01	TBA	TBA	TBA	TBA	AI	
72	0	WC	26	W760	MF	Failed	Ferric Chloride dosing pump W760	CI3.01			Failed	Normal	DI	
73	0	WC	26	W760	MM	Running	Ferric Chloride dosing pump W760	CI3.01					DI	
74	0	WC	26	W760	MN	Start/stop control	Ferric Chloride dosing pump W760	CI3.01					DO	
75	0	WC	26	W760	PAH	High pressure alarm	Ferric Chloride dosing pump W760 Discharge	CI3.01			Alarm	Off	DI	
76	0	WC	26	W760	SC	Speed control	Ferric Chloride dosing pump W760	CI3.01	RPM	TBA			AO	
77	0	WC	26	W760	ST	Speed indication	Ferric Chloride dosing pump W760	CI3.01	RPM	TBA			AI	
78	0	WC	26	W760	YS	Computer selected	Ferric Chloride dosing pump W760	CI3.01					DI	
79	0	WC	26	W790	MM	Running	Ferric unloading make-up air unit W790-MAU	CI4.01					DI	
80	0	WC	26	W790	TT	Ambient air temperature	Ferric Chloride rail unloading building	CI4.01	Deg. C	0-50	5	40	AI	
81	0	WC	26	W790	UA	Failed	Ferric unloading make-up air unit W791-MAU	CI4.01			Failed	Normal	DI	
82	0	WC	26	W791	MM	Running	Ferric unloading exhaust fan W791-EF	CI4.01					DI	
83	0	WC	26	W791	UA	Failed	Ferric unloading exhaust fan W791-EF	CI4.01			Failed	Normal	DI	
84	0	WC	26	W795	MM	Running	Ferric storage make-up air unit W795-MAU	CI4.01					DI	
85	0	WC	26	W795	TT	Ambient air temperature	Ferric Chloride storage building	CI4.01	Deg. C	0-50	5	40	AI	
86	0	WC	26	W795	UA	Failed	Ferric storage make-up air unit W795-MAU	CI4.01			Failed	Normal	DI	
87	0	WC	26	W796	MM	Running	Ferric storage exhaust fan W796-EF	CI4.01					DI	
88	0	WC	26	W796	UA	Failed	Ferric storage exhaust fan W796-EF	CI4.01			Failed	Normal	DI	
89	1	WC	26	W797	MM	Running	Ferric storage Heat Reclaim Pump W797-P	CI4.01					DI	
90	1	WC	26	W797	UA	Failed	Ferric storage Heat Reclaim Pump W797-P	CI4.01			Failed	Normal	DI	
91	1	WC	26	W792	GH	High Level Alarm	Ferric Unloading Carbon Monoxide Detector	CI4.01			Alarm	Normal	DI	
92	1	WC	26	W798	GH	High Level Alarm	Ferric Storage Carbon Monoxide Detector	CI4.01			Alarm	Normal	DI	

END OF SECTION