

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - BOILERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
23	3	CP-B8001	RIO-B8001-1	1	0	DAB100YS	CIRC PUMP BP31 COMP		2 1C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	1	1	DAB100MM	BP31 BOILER 1 CIRC PUMP		2 1C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	1	2	DAB101BH	BLR1 HI FIRE		2 1C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	1	3	DAB101BS	BOILER 1 FIRE ENABLE		2 1C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	1	4	DAB101HM	BOILER 1 CONTROL STATUS		2 1C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	1	5	DAB101QA	BOILER 1 COMMON ALARM		2 1C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	1	6	DAB120MM	BOILER 1 FD FAN STATUS		2 1C		3 7.8						
23	3	CP-B8001	RIO-B8001-1	1	7	DAB200YS	CIRC PUMP BP30 COMP		2 1C		1 1.2						
23	3	CP-B8001	RIO-B8001-1	1	8	DAB200MM	BP30 BOILER 2 CIRC PUMP		2 1C		1 3.4						
23	3	CP-B8001	RIO-B8001-1	1	9	DAB201BH	BLR2 HI FIRE		2 1C		1 5.6						
23	3	CP-B8001	RIO-B8001-1	1	10	DAB201BS	BOILER 2 FIRE ENABLE		2 1C		1 7.8						
23	3	CP-B8001	RIO-B8001-1	1	11	DAB201HM	BOILER 2 CONTROL STATUS		2 1C		2 1.2						
23	3	CP-B8001	RIO-B8001-1	1	12	DAB201QA	BOILER 2 COMMON ALARM		2 1C		2 3.4						
23	3	CP-B8001	RIO-B8001-1	1	13	DAB220MM	BOILER 2 FD FAN STATUS		2 1C		2 7.8						
23	3	CP-B8001	RIO-B8001-1	1	14	DAB300YS	CIRC PUMP BP33 COMP		2 2C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	1	15	DAB300MM	BP33 BOILER 3 CIRC PUMP		2 2C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	1	16	DAB301BH	BLR3 HI FIRE		2 2C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	1	17	DAB301BS	BOILER 3 FIRE ENABLE		2 2C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	1	18	DAB301HM	BOILER 3 CONTROL STATUS		2 2C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	1	19	DAB301QA	BOILER 3 COMMON ALARM		2 2C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	1	20	DAB320MM	BOILER 3 FD FAN STATUS		2 2C		3 7.8						
23	3	CP-B8001	RIO-B8001-1	1	21	DAB400YS	CIRC PUMP BP34 COMP		2 2C		1 1.2						
23	3	CP-B8001	RIO-B8001-1	1	22	DAB400MM	BP34 BOILER 4 CIRC PUMP		2 2C		1 3.4						
23	3	CP-B8001	RIO-B8001-1	1	23	DAB401BH	BLR4 HI FIRE		2 2C		1 5.6						
23	3	CP-B8001	RIO-B8001-1	1	24	DAB401BS	BOILER 4 FIRE ENABLE		2 2C		1 7.8						
23	3	CP-B8001	RIO-B8001-1	1	25	DAB401HM	BOILER 4 CONTROL STATUS		2 2C		2 1.2						
23	3	CP-B8001	RIO-B8001-1	1	26	DAB401QA	BOILER 4 COMMON ALARM		2 2C		2 3.4						
23	3	CP-B8001	RIO-B8001-1	1	27	DAB420MM	BOILER 4 FD FAN STATUS		2 2C		2 7.8						
23	3	CP-B8001	RIO-B8001-1	1	28		BOILER 5 CIRC PUMP RUN		2 3C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	1	29		BOILER 5 20% LEL ALARM		2 3C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	1	30		BOILER 5 FIRE ENABLE		2 3C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	1	31		BOILER 5 CONTROL STATUS		2 3C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	2	0		BOILER 5 COMMON ALARM		2 3C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	2	1		BOILER 5 FD FAN STATUS		2 3C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	2	2		BOILER 5 STNDBY CIRC PUMP RUN		2 3C		3 5.6						
23	3	CP-B8001	RIO-B8001-1	2	3		BOILER 5 LEL ANALZER STATUS		2 3C		3 7.8						
23	3	CP-B8001	RIO-B8001-1	2	4	DAB925XA	BOILER OTL ROOM DOOR OPEN ALARM		2 3C		1 3.4						
23	3	CP-B8001	RIO-B8001-1	2	5	DAB900YS	STNDBY PUMP BP32 COMP		2 4C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	2	6	DAB900MM	BP32 STAND-BY CIRC PUMP		2 4C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	2	7	DAB908PH	BOILER EXPANSION TANK HIGH PRESS		2 4C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	2	8	DAB908PL	BOILER EXPANSION TANK LOW PRESS		2 4C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	2	9	DAB910LH	BOILER SUMP LEVEL ALARM		2 4C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	2	10	DAB701YS	BOILER PUMP 35 COMP-HAND		2 5C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	2	11	DAB701MM	BOILER PUMP 35 DIGESTR GAL HVAC		2 5C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	2	12	DAB702YS	BOILER PUMP 36 COMP-HAND		2 5C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	2	13	DAB702MM	BOILER PUMP 36 DIGESTR GAL HVAC		2 5C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	2	14	DAB703YS	BOILER PUMP 37 COMP-HAND		2 5C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	2	15	DAB703MM	BOILER PUMP 37 DIGESTR GAL HVAC		2 5C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	2	16	DAB704YS	BOILER PUMP 38 COMP-HAND		2 5C		3 5.6						
23	3	CP-B8001	RIO-B8001-1	2	17	DAB704MM	BOILER PUMP 38 BOILER HVAC		2 5C		3 7.8						
23	3	CP-B8001	RIO-B8001-1	2	18	DAB705YS	BOILER PUMP 39 COMP-HAND		2 5C		1 1.2						
23	3	CP-B8001	RIO-B8001-1	2	19	DAB705MM	BOILER PUMP 39 BOILER HVAC		2 5C		1 3.4						
23	3	CP-B8001	RIO-B8001-1	2	20	DAB706YS	BOILER PUMP 20 COMP-HAND		2 5C		1 5.6						
23	3	CP-B8001	RIO-B8001-1	2	21	DAB706MM	BOILER PUMP 20 DIG SLUDGE HEAT		2 5C		1 7.8						
23	3	CP-B8001	RIO-B8001-1	2	22	DAB707YS	BOILER PUMP 21 COMP-HAND		2 5C		2 1.2						
23	3	CP-B8001	RIO-B8001-1	2	23	DAB711MM	BOILER PUMP 42 SECONDARY HVAC		2 6C		3 7.8						
23	3	CP-B8001	RIO-B8001-1	2	24	DAB707MM	BOILER PUMP 21 DIG SLUDGE HEAT		2 5C		2 3.4						
23	3	CP-B8001	RIO-B8001-1	2	25	DAB712YS	BOILER PUMP 43 COMP-HAND		2 6C		1 1.2						
23	3	CP-B8001	RIO-B8001-1	2	26	DAB708YS	AUXILLARY PP 22 COMP-HAND		2 6C		4 1.2						
23	3	CP-B8001	RIO-B8001-1	2	27	DAB712MM	BOILER PUMP 43 MAIN BLDG HVAC		2 6C		1 3.4						
23	3	CP-B8001	RIO-B8001-1	2	28	DAB708MM	AUXILLARY PP 22 SPHERE HEATING		2 6C		4 3.4						
23	3	CP-B8001	RIO-B8001-1	2	29	DAB713YS	BOILER PUMP 44 COMP-HAND		2 6C		1 5.6						
23	3	CP-B8001	RIO-B8001-1	2	30	DAB709YS	AUXILLARY PP 23 COMP-HAND		2 6C		4 5.6						
23	3	CP-B8001	RIO-B8001-1	2	31	DAB713MM	BOILER PUMP 44 MAIN BLDG HVAC		2 6C		1 7.8						
23	3	CP-B8001	RIO-B8001-1	2	0	DAB709MM	AUXILLARY PP 23 SPHERE HEATING		2 6C		4 7.8						
23	3	CP-B8001	RIO-B8001-1	2	1	DAB904YS	BP28 MAKE-UP PP C-H		2 6C		2 1.2						
23	3	CP-B8001	RIO-B8001-1	2	2	DAB710YS	BOILER PUMP 41 COMP-HAND		2 6C		3 1.2						
23	3	CP-B8001	RIO-B8001-1	2	3	DAB904MM	BP28 MAKE-UP PUMP STATUS		2 6C		2 3.4						
23	3	CP-B8001	RIO-B8001-1	2	4	DAB710MM	BOILER PUMP 41 SECONDARY HVAC		2 6C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	2	5	DAB905YS	BP29 MAKE-UP PP C-H		2 6C		2 5.6						
23	3	CP-B8001	RIO-B8001-1	3	6	DAB711YS	BOILER PUMP 42 COMP-HAND		2 6C		3 5.6						
23	3	CP-B8001	RIO-B8001-1	3	7	DAB905MM	BP29 MAKE-UP PUMP STATUS		2 6C		2 7.8						
23	3	CP-B8001	RIO-B8001-1	3	8		SPARE		2 1C		3 5.6						
23	3	CP-B8001	RIO-B8001-1	3	9		SPARE		2 1C		2 5.6						
23	3	CP-B8001	RIO-B8001-1	3	10		SPARE		2 2C		3 5.6						
23	3	CP-B8001	RIO-B8001-1	3	11		SPARE		2 2C		2 5.6						
23	3	CP-B8001	RIO-B8001-1	3	12		SPARE		2 3C		1 1.2						
23	3	CP-B8001	RIO-B8001-1	3	13		SPARE		2 3C		1 5.6						
23	3	CP-B8001	RIO-B8001-1	3	14		SPARE		2 3C		1 7.8						
23	3	CP-B8001	RIO-B8001-1	3	15		SPARE		2 3C		2 1.2						
23	3	CP-B8001	RIO-B8001-1	3	16		SPARE		2 3C		2 3.4						
23	3	CP-B8001	RIO-B8001-1	3	17		SPARE		2 3C		2 5.6						
23	3	CP-B8001	RIO-B8001-1	3	18		SPARE		2 3C		2 7.8						
23	3	CP-B8001	RIO-B8001-1	3	19		SPARE		2 4C		3 3.4						
23	3	CP-B8001	RIO-B8001-1	3	20		SPARE		2 4C		3 5.6						

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Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
23	3	CP-B8001	RIO-B8001-1	3	21		SPARE		2 4C		3 7,8						
23	3	CP-B8001	RIO-B8001-1	3	22		SPARE		2 4C		1 1,2						
23	3	CP-B8001	RIO-B8001-1	3	23		SPARE		2 4C		1 3,4						
23	3	CP-B8001	RIO-B8001-1	3	24		SPARE		2 4C		1 5,6						
23	3	CP-B8001	RIO-B8001-1	3	25		SPARE		2 4C		1 7,8						
23	3	CP-B8001	RIO-B8001-1	3	26		SPARE		2 4C		2 1,2						
23	3	CP-B8001	RIO-B8001-1	3	27		SPARE		2 4C		2 3,4						
23	3	CP-B8001	RIO-B8001-1	3	28		SPARE		2 4C		2 5,6						
23	3	CP-B8001	RIO-B8001-1	3	29		SPARE		2 4C		2 7,8						
23	3	CP-B8001	RIO-B8001-1	3	30		SPARE		2 5C		2 5,6						
23	3	CP-B8001	RIO-B8001-1	3	31		SPARE		2 5C		2 7,8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - BOILERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
23	3	CP-B8001	RIO-B8001-1	3	0	DAB100MN			2	1D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	3	1	DAB100MO			2	1D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	3	2	DAB101BO			2	1D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	3	3	DAB101BO	BLR 1 BAILEY SHUTDOWN		2	1D	1	7.8					
23	3	CP-B8001	RIO-B8001-1	3	4	DAB900MN			2	1D	2	7.8					
23	3	CP-B8001	RIO-B8001-1	3	5	DAB900MO			2	2D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	3	6	DAB200MN			2	2D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	3	7	DAB200MO			2	2D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	3	8	DAB551BO	BOILER 5 SHUTDOWN		2	2D	2	1.2					
23	3	CP-B8001	RIO-B8001-1	3	9	DAB201BO			2	2D	2	3.4					
23	3	CP-B8001	RIO-B8001-1	3	10	DAB300MN	BLR3 CC PP CTL		2	3D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	3	11	DAB300MO	BLR3 CC PP CTL		2	3D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	4	12	DAB301BO	BLR3 SHUTDOWN		2	3D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	4	13	DAB900MN	STBY CC PP CTL		2	3D	2	5.6					
23	3	CP-B8001	RIO-B8001-1	4	14	DAB900MO	STBY CC PP CTL		2	3D	2	7.8					
23	3	CP-B8001	RIO-B8001-1	4	15	DAB400MN	BLR4 CC PP CTL		2	4D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	4	0	DAB400MO	BLR4 CC PP CTL		2	4D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	4	1	DAB401BO	BLR4 SHUTDOWN		2	4D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	4	2	DAB701MN	GAL HVAC PP CTL		2	5D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	4	3	DAB701MO	GAL HVAC PP CTL		2	5D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	4	4	DAB702MN	GAL HVAC PP CTL		2	5D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	4	5	DAB702MO	GAL HVAC PP CTL		2	5D	1	7.8					
23	3	CP-B8001	RIO-B8001-1	4	6	DAB703MN	GAL HVAC PP CTL		2	5D	2	1.2					
23	3	CP-B8001	RIO-B8001-1	4	7	DAB703MO	GAL HVAC PP CTL		2	5D	2	3.4					
23	3	CP-B8001	RIO-B8001-1	5	8	DAB704MN	BLR HVAC PP CTL		2	5D	2	5.6					
23	3	CP-B8001	RIO-B8001-1	5	9	DAB704MO	BLR HVAC PP CTL		2	5D	2	7.8					
23	3	CP-B8001	RIO-B8001-1	5	10	DAB705MN	BLR HVAC PP CTL		2	6D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	5	11	DAB705MO	BLR HVAC PP CTL		2	6D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	5	12	DAB706MN	HT EXCH PP CTL		2	6D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	5	13	DAB706MO	HT EXCH PP CTL		2	6D	1	7.8					
23	3	CP-B8001	RIO-B8001-1	5	14	DAB707MN	HT EXCH PP CTL		2	6D	2	1.2					
23	3	CP-B8001	RIO-B8001-1	5	15	DAB707MO	HT EXCH PP CTL		2	6D	2	3.4					
23	3	CP-B8001	RIO-B8001-1	5	0	DAB708MN	G HVAC PP CTL		2	7D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	5	1	DAB708MO	G HVAC PP CTL		2	7D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	5	2	DAB709MN	G HVAC PP CTL		2	7D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	5	3	DAB709MO	G HVAC PP CTL		2	7D	1	7.8					
23	3	CP-B8001	RIO-B8001-1	6	4	DAB710MN	SEC HVAC PP CTL		2	7D	2	1.2					
23	3	CP-B8001	RIO-B8001-1	6	5	DAB710MO	SEC HVAC PP CTL		2	7D	2	3.4					
23	3	CP-B8001	RIO-B8001-1	6	6	DAB711MN	SEC HVAC PP CTL		2	7D	2	5.6					
23	3	CP-B8001	RIO-B8001-1	6	7	DAB711MO	SEC HVAC PP CTL		2	7D	2	7.8					
23	3	CP-B8001	RIO-B8001-1	6	8	DAB712MN	M-B HVAC PP CTL		2	8D	1	1.2					
23	3	CP-B8001	RIO-B8001-1	6	9	DAB712MO	M-B HVAC PP CTL		2	8D	1	3.4					
23	3	CP-B8001	RIO-B8001-1	6	10	DAB713MN	M-B HVAC PP CTL		2	8D	1	5.6					
23	3	CP-B8001	RIO-B8001-1	6	11	DAB713MO	M-B HVAC PP CTL		2	8D	1	7.8					
23	3	CP-B8001	RIO-B8001-1	6	12	DAB904MN	MAKE-UP PP CTL		2	8D	2	1.2					
23	3	CP-B8001	RIO-B8001-1	6	13	DAB904MO	MAKE-UP PP CTL		2	8D	2	3.4					
23	3	CP-B8001	RIO-B8001-1	6	14	DAB905MN	MAKE-UP PP CTL		2	8D	2	5.6					
23	3	CP-B8001	RIO-B8001-1	6	15	DAB905MO	MAKE-UP PP CTL		2	8D	2	7.8					
23	3					SPARE - NOT MIGRATED			2	1D	2	1.2					
23	3					SPARE - NOT MIGRATED			2	1D	2	3.4					
23	3					SPARE - NOT MIGRATED			2	1D	2	5.6					
23	3					SPARE - NOT MIGRATED			2	2D	1	7.8					
23	3					SPARE - NOT MIGRATED			2	2D	2	5.6					
23	3					SPARE - NOT MIGRATED			2	2D	2	7.8					
23	3					SPARE - NOT MIGRATED			2	3D	1	7.8					
23	3					SPARE - NOT MIGRATED			2	3D	2	1.2					
23	3					SPARE - NOT MIGRATED			2	3D	2	3.4					
23	3					SPARE - NOT MIGRATED			2	4D	1	7.8					
23	3					SPARE - NOT MIGRATED			2	4D	2	1.2					
23	3					SPARE - NOT MIGRATED			2	4D	2	3.4					
23	3					SPARE - NOT MIGRATED			2	4D	2	5.6					
23	3					SPARE - NOT MIGRATED			2	4D	2	7.8					
23	3					SPARE - NOT MIGRATED			2	6D	2	5.6					
23	3					SPARE - NOT MIGRATED			2	6D	2	7.8					

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Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
23	3	CP-B8001	RIO-B8001-1	8	0	DAB500TT	MAIN BOILER LOOP OUTPUT TEMP	2	3A		1 1,2						4-20MA
23	3	CP-B8001	RIO-B8001-1	8	1	DAB501TT	MAIN BOILER LOOP RETURN TEMP	2	3A		1 3,4						4-20MA
23	3	CP-B8001	RIO-B8001-1	8	2	DAB907LT	BOILER EXPANSION TANK	2	3A		1 7,8						4-20MA
23	3	CP-B8001	RIO-B8001-1	8	3	DAB106TT	BOILER 1 STACK TEMPERATURE	2	3A		2 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	8	4	DAB206TT	BOILER 2 STACK TEMPERATURE	2	3A		2 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	8	5	DAB306TT	BOILER 3 STACK TEMPERATURE	2	3A		2 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	8	6	DAB406TT	BOILER 4 STACK TEMPERATURE	2	3A		2 7,8						4-20MA
23	3	CP-B8001	RIO-B8001-1	9	7	DAB104FT	BOILER 1 NATURAL GAS FLOW	2	3A		3 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	0	DAB105FT	BOILER 1 SLUDGE GAS FLOW	2	3A		3 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	1	DAB121FT	BOILER 1 HOT WATER FLOW	2	3A		3 7,8	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	2	DAB221FT	BOILER 2 HOT WATER FLOW	2	3A		4 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	3	DAB204FT	BOILER 2 NATURAL GAS FLOW	2	3A		4 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	4	DAB205FT	BOILER 2 SLUDGE GAS FLOW	2	3A		4 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	9	5	DAB304FT	BOILER 3 NATURAL GAS FLOW	2	4A		3 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	6	DAB305FT	BOILER 3 SLUDGE GAS FLOW	2	4A		3 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	7	DAB321FT	BOILER 3 HOT WATER FLOW	2	4A		3 7,8	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	0	DAB421FT	BOILER 4 HOT WATER FLOW	2	4A		4 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	1	DAB404FT	BOILER 4 NATURAL GAS FLOW	2	4A		4 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	2	DAB405FT	BOILER 4 SLUDGE GAS FLOW	2	4A		4 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	10	3	DAB501ZT	BOILER 1 JACKSHAFT POSITION	2	5A		1 1,2						4-20MA
23	3	CP-B8001	RIO-B8001-1	10	4	DAB502ZT	BOILER 2 JACKSHAFT POSITION	2	5A		1 3,4						4-20MA
23	3	CP-B8001	RIO-B8001-1	11	5	DAB101TT	BOILER 1 WATER TEMP	2	5A		1 5,6						4-20MA
23	3	CP-B8001	RIO-B8001-1	11	6	DAB201TT	BOILER 2 WATER TEMP	2	5A		1 7,8						4-20MA
23	3	CP-B8001	RIO-B8001-1	11	7	DAB301TT	BOILER 3 WATER TEMP	2	5A		2 7,8						4-20MA
23	3	CP-B8001	RIO-B8001-1	11	0	DAB401TT	BOILER 4 WATER TEMP	2	5A		3 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	11	1	DAB551TT	BOILER 5 HOT WATER TEMP	2	5A		3 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	11	2	DAB552TT	BOILER 5 STACK TEMP	2	5A		3 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-1	11	3	DAB554FT	BOILER 5 NATURAL GAS FLOW	2	5A		3 7,8	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	4	DAB555FT	BOILER 5 SLUDGE GAS FLOW	2	5A		4 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	5	DAB571FT	BOILER 5 HOT WATER FLOW	2	5A		4 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	6	DAB551ZT	BOILER 5 FIRING RATE	2	5A		4 5,6	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	7		SPARE	2	3A		1 5,6						4-20MA
23	3	CP-B8001	RIO-B8001-2	1	0		SPARE	2	3A		3 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	1		SPARE	2	4A		1 1,2						4-20MA
23	3	CP-B8001	RIO-B8001-2	1	2		SPARE	2	4A		1 3,4						4-20MA
23	3	CP-B8001	RIO-B8001-2	1	3		SPARE	2	4A		1 5,6						4-20MA
23	3	CP-B8001	RIO-B8001-2	1	4		SPARE	2	4A		1 7,8						4-20MA
23	3	CP-B8001	RIO-B8001-2	1	5		SPARE	2	4A		2 1,2	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	6		SPARE	2	4A		2 3,4	24 VDC					4-20MA
23	3	CP-B8001	RIO-B8001-2	1	7		SPARE	2	4A		2 5,6	24 VDC					4-20MA
23	3						SPARE - NOT MIGRATED	2	4A		2 7,8						4-20MA
23	3						SPARE - NOT MIGRATED	2	4A		3 1,2	24 VDC					4-20MA
23	3						SPARE - NOT MIGRATED	2	5A		2 1,2	24 VDC					4-20MA
23	3						SPARE - NOT MIGRATED	2	5A		2 3,4	24 VDC					4-20MA
23	3						SPARE - NOT MIGRATED	2	5A		2 5,6	24 VDC					4-20MA

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - BOILERS

Analog Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
23	3	CP-B8001	RIO-B8001-2	2	0	DAB101TC	BOILER 1 TEMP CONTROL	2 8A			4 1,2		4-20MA				
23	3	CP-B8001	RIO-B8001-2	2	1	DAB201TC	BOILER 2 TEMP CONTROL	2 8A			4 3,4		4-20MA				
23	3	CP-B8001	RIO-B8001-2	2	2	DAB301TC	BOILER 3 TEMP CONTROL	2 8A			4 5,6		4-20MA				
23	3	CP-B8001	RIO-B8001-2	2	3	DAB401TC	BOILER 4 TEMP CONTROL	2 8A			4 7,8		4-20MA				
23	3	CP-B8001	RIO-B8001-2	3	0	DAB501TC	BOILER 5 TEMP CONTROL	2 8A			3 1,2		4-20MA				
23	3	CP-B8001	RIO-B8001-2	3	1	DAB500TT	MAIN BOILER LOOP OUTPUT TEMP	2 8A			3 3,4		4-20MA				
23	3	CP-B8001	RIO-B8001-2	3	2	DAB501TT	MAIN BOILER LOOP RETURN TEMP	2 8A			3 5,6		4-20MA				
23	3	CP-B8001	RIO-B8001-2	3	3		SPARE	2 8A			1 1,2		4-20MA				
23	3	CP-B8001	RIO-B8001-2	4	0		SPARE	2 8A			1 3,4		4-20MA				
23	3	CP-B8001	RIO-B8001-2	4	1		SPARE	2 8A			1 5,6		4-20MA				
23	3	CP-B8001	RIO-B8001-2	4	2		SPARE	2 8A			1 7,8		4-20MA				
23	3	CP-B8001	RIO-B8001-2	4	3		SPARE	2 8A			2 1,2		4-20MA				
23	3						SPARE - NOT MIGRATED	2 8A			2 3,4		4-20MA				
23	3						SPARE - NOT MIGRATED	2 8A			2 5,6		4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-1	1	0	CAC005LH	DISTRIBUTION CHAMBER LEVEL HIGH	3	2A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	1	1	C620 IN COMPUTER	C620 IN COMPUTER	3	2A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	1	2	C620 FAIL	C620 FAIL	3	2A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	1	3	C620 RUN	C620 RUN	3	2A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	1	4	C660 FULLY CLOSED	C660 FULLY CLOSED	3	2A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	1	5	C660 FULLY OPENED	C660 FULLY OPENED	3	2A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	1	6	CAC660YS	C660 VAVLE COMP-HAND	3	2A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	1	7	C675 FULLY CLOSED	C675 FULLY CLOSED	3	2A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	1	8	CAC685YS	SBR2 SA DOSING VALVE COMP/HAND	3	2A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	1	9	C690 FULLY CLOSED	C690 FULLY CLOSED	3	2A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	1	10	C690 FULLY OPENED	C690 FULLY OPENED	3	2A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	1	11	CAC690YS	C690 VALVE COMP/HAND	3	2A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	1	12	C675 FULLY OPENED	C675 FULLY OPENED	3	2A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	1	13	CAC675YS	SBR1 SA DOSING VAVLE COMP/HAND	3	2A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	1	14	C685 FULLY CLOSED	C685 FULLY CLOSED	3	2A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	1	15	C685 FULLY OPENED	C685 FULLY OPENED	3	2A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	1	16	C695 FULLY CLOSED	C695 FULLY CLOSED	3	2B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	1	17	C695 FULLY OPENED	C695 FULLY OPENED	3	2B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	1	18	CAC695YS	C695 VALVE COMP/HAND	3	2B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	1	19	C615 FAIL	C615 FAIL	3	2B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	1	20	C615 RUN	C615 RUN	3	2B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	1	21	C630 IN COMPUTER	C630 IN COMPUTER	3	2B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	1	22	C630 FAIL	C630 FAIL	3	2B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	1	23	C600 SHOWER NOT IN USE	C600 SHOWER NOT IN USE	3	2B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	1	24	C700 SHOWER NOT IN USE	C700 SHOWER NOT IN USE	3	2B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	1	25	C615 IN COMPUTER	C615 IN COMPUTER	3	2B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	1	26	C630 RUN	C630 RUN	3	2B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	1	27	C625 IN COMPUTER	C625 IN COMPUTER	3	2B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	1	28	C625 FAIL	C625 FAIL	3	2B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	1	29	C625 RUN	C625 RUN	3	2B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	1	30	C610 HIGH SW NORMAL	C610 HIGH SW NORMAL	3	3A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	1	31	C610 LOW SW NORMAL	C610 LOW SW NORMAL	3	3A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	2	0	CAC635LH	SUPPLY HOPPER LEVEL HIGH	3	3A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	2	1	CAC635LL	SUPPLY HOPPER LEVEL LOW	3	3A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	2	2	C640 IN COMPUTER	C640 IN COMPUTER	3	3A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	2	3	C640 RUN	C640 RUN	3	3A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	2	4	C640 NORMAL	C640 NORMAL	3	3A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	2	5	C660 SUPPLY PRES NORMAL	C660 SUPPLY PRES NORMAL	3	3A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	2	6	C650 RUN	C650 RUN	3	3A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	2	7	C645-EF IN COMPUTER	C645-EF IN COMPUTER	3	3A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	2	8	C645-EF RUN	C645-EF RUN	3	3A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	2	9	FLOW ASH SILO ALARM	FLOW ASH SILO ALARM	3	3A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	2	10	C645 HIGH SW NORMAL	C645 HIGH SW NORMAL	3	3A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	2	11	C645 LOW SW NORMAL	C645 LOW SW NORMAL	3	3A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	2	12	C650 IN COMPUTER	C650 IN COMPUTER	3	3A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	2	13	C650 FAIL	C650 FAIL	3	3A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	2	14	C010 FULLY CLOSED	C010 FULLY CLOSED	3	3B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	2	15	C010 FULLY OPENED	C010 FULLY OPENED	3	3B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	2	16	CAC010YS	C010 WEIRGATE COMP-HAND	3	3B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	2	17	C020 FULLY CLOSED	C020 FULLY CLOSED	3	3B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	2	18	C020 FULLY OPENED	C020 FULLY OPENED	3	3B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	2	19	CAC020YS	C020 WEIRGATE COMP-HAND	3	3B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	2	20	C106 IN COMPUTER	C106 IN COMPUTER	3	3B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	2	21	C110 IN COMPUTER	C110 IN COMPUTER	3	3B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	2	22	C120 FAIL	C120 FAIL	3	3B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	2	23	C130 IN COMPUTER	C130 IN COMPUTER	3	3B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	2	24	C130 RUN	C130 RUN	3	3B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	2	25	C130 FAIL	C130 FAIL	3	3B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	2	26	C110 RUN	C110 RUN	3	3B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	2	27	C110 FAIL	C110 FAIL	3	3B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	2	28	C120 IN COMPUTER	C120 IN COMPUTER	3	3B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	2	29	C120 RUN	C120 RUN	3	3B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	2	30	C140 IN COMPUTER	C140 IN COMPUTER	3	4A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	2	31	C140 RUN	C140 RUN	3	4A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	3	0	C140 FAIL	C140 FAIL	3	4A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	3	1	C150 IN COMPUTER	C150 IN COMPUTER	3	4A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	3	2	C150 RUN	C150 RUN	3	4A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	3	3	C150 FAIL	C150 FAIL	3	4A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	3	4	CAC502AF	EXHAUST FAN ROOM O2 SENSOR STATU	3	4A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	3	5	CAC502AL	EXHAUST FAN ROOM LOW O2 LEVEL	3	4A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	3	6	C600 UNLOAD START BT	C600 UNLOAD START BT	3	4A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	3	7	C600 UNLOAD STOP BT	C600 UNLOAD STOP BT	3	4A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	3	8	C184 FULLY OPENED	C184 FULLY OPENED	3	4B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	3	9	C184 FULLY CLOSED	C184 FULLY CLOSED	3	4B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	3	10	C185AF1 NORMAL	C185AF1 NORMAL	3	4B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	3	11	C206 IN COMPUTER	C206 IN COMPUTER	3	4B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	3	12	C220 IN COMPUTER	C220 IN COMPUTER	3	4B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	3	13	C220 RUN	C220 RUN	3	4B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	3	14	C220 FAIL	C220 FAIL	3	4B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	3	15	C210 IN COMPUTER	C210 IN COMPUTER	3	4B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	3	16	C210 RUN	C210 RUN	3	4B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	3	17	C210 FAIL	C210 FAIL	3	4B		2	5.6					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-1	3	18	C230 IN COMPUTER	C230 IN COMPUTER	3	5A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	3	19	C230 RUN	C230 RUN	3	5A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	3	20	C230 FAIL	C230 FAIL	3	5A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	3	21	C240 IN COMPUTER	C240 IN COMPUTER	3	5A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	3	22	C250 RUN	C250 RUN	3	5A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	3	23	C250 FAIL	C250 FAIL	3	5A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	3	24	C240 RUN	C240 RUN	3	5A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	3	25	C240 FAIL	C240 FAIL	3	5A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	3	26	CAC905UA	N-REMOVAL FIELD POWER STATUS	3	5A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	3	27	C250 IN COMPUTER	C250 IN COMPUTER	3	5A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	3	28	C284 FULLY OPENED	C284 FULLY OPENED	3	5B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	3	29	C284 FULLY CLOSED	C284 FULLY CLOSED	3	5B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	3	30	C285AT2 NORMAL	C285AT2 NORMAL	3	5B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	3	31	C310 FAIL	C310 FAIL	3	5B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	4	0	C320 IN COMPUTER	C320 IN COMPUTER	3	5B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	4	1	CAC300PH	C300 EQ TANK PRESSURE HIGH	3	5B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	4	2	CAC300PL	C300 EQ TANK PRESSURE LOW	3	5B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	4	3	C310 IN COMPUTER	C310 IN COMPUTER	3	5B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	4	4	C310 RUN	C310 RUN	3	5B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	4	5	C320 RUN	C320 RUN	3	6A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	4	6	C320 FAIL	C320 FAIL	3	6A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	4	7	CAC791YS	SBR1 METH DOSING VALVE COMP/HAN	3	6A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	4	8	C791 FULLY OPENED	C791 FULLY OPENED	3	6A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	4	9	C330 IN COMPUTER	C330 IN COMPUTER	3	6A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	4	10	C330 RUN	C330 RUN	3	6A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	4	11	C330 NORMAL	C330 NORMAL	3	6A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	4	12	C340 IN COMPUTER	C340 IN COMPUTER	3	6A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	4	13	C410 DISCHARGE T NORM	C410 DISCHARGE T NORMAL	3	6A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	4	14	C410 DISCHARGE P NORM	C410 DISCHARGE P NORMAL	3	6A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	4	15	C791 FULLY CLOSED	C791 FULLY CLOSED	3	6A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	4	16	C420 INTAKE PRES NORM	C420 INTAKE PRES NORMAL	3	6A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	4	17	C340 RUN	C340 RUN	3	6A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	4	18	C340 NORMAL	C340 NORMAL	3	6A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	4	19	C410 INTAKE PRES NORM	C410 INTAKE PRES NORMAL	3	6A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	4	20	C410 MOTOR VIB NORM	C410 MOTOR VIB NORMAL	3	6A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	4	21	C420 MOTOR VIB NORM	C420 MOTOR VIB NORMAL	3	6B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	4	22	C420 DISCHARGE T NORM	C420 DISCHARGE T NORMAL	3	6B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	4	23	C420 DISCHARGE P NORM	C420 DISCHARGE P NORMAL	3	6B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	4	24	CAC590LAH	Sampler room high water level	3	6B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	4	25	C430 INTAKE PRES NORM	C430 INTAKE PRES NORMAL	3	6B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	4	26	C430 MOTOR VIB NORM	C430 MOTOR VIB NORMAL	3	6B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	4	27	C430 DISCHARGE T NORM	C430 DISCHARGE T NORMAL	3	6B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	4	28	C430 DISCHARGE P NORM	C430 DISCHARGE P NORMAL	3	6B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	4	29	C440 DISCHARGE P NORM	C440 DISCHARGE P NORMAL	3	6B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	4	30	CAC500AF	C500 GAS DETECTOR FAIL	3	6B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	4	31	CAC500AH	C500 HIGH H2S ALARM	3	6B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	5	0	C440 INTAKE PRES NORM	C440 INTAKE PRES NORMAL	3	6B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	5	1	C440 MOTOR VIB NORM	C440 MOTOR VIB NORMAL	3	6B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	5	2	C440 DISCHARGE T NORM	C440 DISCHARGE T NORMAL	3	6B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	5	3	CAC500AHH	C500 HIGH HIGH H2S ALARM	3	7A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	5	4	CAC501AF	C501 GAS DETECTOR FAIL	3	7A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	5	5	CAC501AH	C501 HIGH H2S ALARM	3	7A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	5	6	CAC501AHH	C501 HIGH HIGH H2S ALARM	3	7A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	5	7	C510 IN COMPUTER	C510 IN COMPUTER	3	7A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	5	8	C510 RUN	C510 RUN	3	7A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	5	9	CAC510MF	C510 EF FAN VFD FAIL	3	7A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	5	10	C521 DP2 FULLY CLOSED	C521 DP2 FULLY CLOSED	3	7A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	5	11	C521 RUN	C521 RUN	3	7A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	5	12	C521 NORMAL	C521 NORMAL	3	7A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	5	13	C522 DP2 FULLY CLOSED	C522 DP2 FULLY CLOSED	3	7A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	5	14	C522 DP2 FULLY OPENED	C522 DP2 FULLY OPENED	3	7A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	5	15	C521 DP2 FULLY OPENED	C521 DP2 FULLY OPENED	3	7A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	5	16	C521 DP1 FULLY CLOSED	C521 DP1 FULLY CLOSED	3	7A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	5	17	C521 DP1 FULLY OPENED	C521 DP1 FULLY OPENED	3	7A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	5	18	C521 IN COMPUTER	C521 IN COMPUTER	3	7A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	5	19	C522 DP1 FULLY CLOSED	C522 DP1 FULLY CLOSED	3	7B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	5	20	C522 DP1 FULLY OPENED	C522 DP1 FULLY OPENED	3	7B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	5	21	C522 IN COMPUTER	C522 IN COMPUTER	3	7B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	5	22	C522 RUN	C522 RUN	3	7B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	5	23	C522 NORMAL	C522 NORMAL	3	7B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	5	24	C523 DP2 FULLY CLOSED	C523 DP2 FULLY CLOSED	3	7B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	5	25	C523 DP2 FULLY OPENED	C523 DP2 FULLY OPENED	3	7B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	5	26	C523 DP1 FULLY OPENED	C523 DP1 FULLY OPENED	3	7B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	5	27	C524 DP2 FULLY CLOSED	C524 DP2 FULLY CLOSED	3	7B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	5	28	C524 DP2 FULLY OPENED	C524 DP2 FULLY OPENED	3	7B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	5	29	C524 DP1 FULLY CLOSED	C524 DP1 FULLY CLOSED	3	7B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	5	30	C524 DP1 FULLY OPENED	C524 DP1 FULLY OPENED	3	7B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	5	31	C523 DP1 FULLY CLOSED	C523 DP1 FULLY CLOSED	3	7B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	6	0	C523 IN COMPUTER	C523 IN COMPUTER	3	7B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	6	1	C523 RUN	C523 RUN	3	7B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	6	2	C523 NORMAL	C523 NORMAL	3	7B		2	7.8					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-1	6	3	C524 IN COMPUTER	C524 IN COMPUTER	3	8A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	6	4	C524 RUN	C524 RUN	3	8A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	6	5	C524 NORMAL	C524 NORMAL	3	8A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	6	6	C530 DP2 FULLY CLOSED	C530 DP2 FULLY CLOSED	3	8A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	6	7	C530 DP2 FULLY OPENED	C530 DP2 FULLY OPENED	3	8A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	6	8	C530 DP1 FULLY CLOSED	C530 DP1 FULLY CLOSED	3	8A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	6	9	C530 DP1 FULLY OPENED	C530 DP1 FULLY OPENED	3	8A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	6	10	C530 IN COMPUTER	C530 IN COMPUTER	3	8A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	6	11	C540 DP1 FULLY CLOSED	C540 DP1 FULLY CLOSED	3	8A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	6	12	C540 DP1 FULLY OPENED	C540 DP1 FULLY OPENED	3	8A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	6	13	C540 IN COMPUTER	C540 IN COMPUTER	3	8A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	6	14	C540 RUN	C540 RUN	3	8A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	6	15	C530 RUN	C530 RUN	3	8A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	6	16	C530 FAIL	C530 FAIL	3	8A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	6	17	C540 DP2 FULLY CLOSED	C540 DP2 FULLY CLOSED	3	8A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	6	18	C540 DP2 FULLY OPENED	C540 DP2 FULLY OPENED	3	8A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	6	19	C540 NORMAL	C540 NORMAL	3	8B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	6	20	CAC795YS	SBR2 METH DOSING VALVE COMP/HAN	3	8B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	6	21	C795 FULLY OPENED	C795 FULLY OPENED	3	8B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	6	22	C550 DP FULLY CLOSED	C550 DP FULLY CLOSED	3	8B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	6	23	C550 DP FULLY OPENED	C550 DP FULLY OPENED	3	8B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	6	24	C550 RUN	C550 RUN	3	8B		3	3.56					
29	3	CP-C8001	RIO-C8001-1	6	25	C560 DP FULLY OPENED	C560 DP FULLY OPENED	3	8B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	6	26	CAC550PDSH	C550 FILTER STATUS	3	8B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	6	27	CAC551TSL	N-REMOVAL CONTROL RM FREEZSTAT	3	8B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	6	28	C795 FULLY CLOSED	C795 FULLY CLOSED	3	8B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	6	29	C560 DP FULLY CLOSED	C560 DP FULLY CLOSED	3	8B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	6	30	C560 IN COMPUTER	C560 IN COMPUTER	4	2A		4	1.2					
29	3	CP-C8001	RIO-C8001-1	6	31	C560 RUN	C560 RUN	4	2A		4	3.4					
29	3	CP-C8001	RIO-C8001-1	7	0	C560 NORMAL	C560 NORMAL	4	2A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	7	1	CAC560PDSH	C560 FILTER STATUS	4	2A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	7	2	CAC570LHH	West sump pit level hi hi	4	2A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	7	3	CAC570UA1	WEST SUMP C570-P MINOR ALARM	4	2A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	7	4	CAC570UA2	WEST SUMP C570-P MAJOR ALARM	4	2A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	7	5	CAC572UA1	WEST SUMP C572-P MINOR ALARM	4	2A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	7	6	CAC573UA1	EAST SUMP C573-P MINOR ALARM	4	2A		1	1.2					
29	3	CP-C8001	RIO-C8001-1	7	7	CAC573UA2	EAST SUMP C573-P MAJOR ALARM	4	2A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	7	8	C580 DP FULLY CLOSED	C580 DP FULLY CLOSED	4	2A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	7	9	C580 DP FULLY OPENED	C580 DP FULLY OPENED	4	2A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	7	10	CAC572UA2	WEST SUMP C572-P MAJOR ALARM	4	2A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	7	11	CAC571LHH	EAST SUMP PIT LEVEL HI HI	4	2A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	7	12	CAC571UA1	EAST SUMP C571-P MINOR ALARM	4	2A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	7	13	CAC571UA2	EAST SUMP C571-P MAJOR ALARM	4	2A		2	7.8					
29	3	CP-C8001	RIO-C8001-1	7	14	C580 IN COMPUTER	C580 IN COMPUTER	4	2B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	7	15	C580 RUN	C580 RUN	4	2B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	7	16	C580 NORMAL	C580 NORMAL	4	2B		4	5.6					
29	3	CP-C8001	RIO-C8001-1	7	17	C710 OP CLOSE	C710 OP CLOSE	4	2B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	7	18	C710 FIELD OPEN CMD	C710 FIELD OPEN CMD	4	2B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	7	19	C740 OP CLOSE	C740 OP CLOSE	4	2B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	7	20	C740 FIELD OPEN CMD	C740 FIELD OPEN CMD	4	2B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	7	21	C700 SIREN SILENCE	C700 SIREN SILENCE	4	2B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	7	22	CAC720LS	C720 METHANOL TANK LEAKAGE	4	2B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	7	23	C730 IN COMPUTER	C730 IN COMPUTER	4	2B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	7	24	C730 RUN	C730 RUN	4	2B		1	5.6					
29	3	CP-C8001	RIO-C8001-1	7	25	C730 FAIL	C730 FAIL	4	2B		1	7.8					
29	3	CP-C8001	RIO-C8001-1	7	26	C705 IN COMPUTER	C705 IN COMPUTER	4	2B		2	1.2					
29	3	CP-C8001	RIO-C8001-1	7	27	C706 IN COMPUTER	C706 IN COMPUTER	4	2B		2	3.4					
29	3	CP-C8001	RIO-C8001-1	7	28	C710 FULLY CLOSED	C710 FULLY CLOSED	4	2B		2	5.6					
29	3	CP-C8001	RIO-C8001-1	7	29	C710 FULLY OPENED	C710 FULLY OPENED	4	2B		2	7.8					
29	3	CP-C8001	RIO-C8001-1	7	30	C730 HIGH PRES NORMAL	C730 HIGH PRES NORMAL	4	3A		4	5.6					
29	3	CP-C8001	RIO-C8001-1	7	31	C730 LOW FLOW NORMAL	C730 LOW FLOW NORMAL	4	3A		4	7.8					
29	3	CP-C8001	RIO-C8001-1	8	0	C730 LEAKAGE NORMAL	C730 LEAKAGE NORMAL	4	3A		3	1.2					
29	3	CP-C8001	RIO-C8001-1	8	1	C740 FULLY CLOSED	C740 FULLY CLOSED	4	3A		3	3.4					
29	3	CP-C8001	RIO-C8001-1	8	2	C740 FULLY OPENED	C740 FULLY OPENED	4	3A		3	5.6					
29	3	CP-C8001	RIO-C8001-1	8	3	CAC750LS	C750 METHANOL TANK LEAKAGE	4	3A		3	7.8					
29	3	CP-C8001	RIO-C8001-1	8	4	C760 HIGH PRES NORMAL	C760 HIGH PRES NORMAL	4	3A		1	3.4					
29	3	CP-C8001	RIO-C8001-1	8	5	C760 LOW FLOW NORMAL	C760 LOW FLOW NORMAL	4	3A		1	5.6					
29	3	CP-C8001	RIO-C8001-1	8	6	C760 LEAKAGE NORMAL	C760 LEAKAGE NORMAL	4	3A		1	7.8					
29	3	CP-C8001	RIO-C8001-1	8	7	C760 IN COMPUTER	C760 IN COMPUTER	4	3A		2	1.2					
29	3	CP-C8001	RIO-C8001-1	8	8	C760 RUN	C760 RUN	4	3A		2	3.4					
29	3	CP-C8001	RIO-C8001-1	8	9	C760 FAIL	C760 FAIL	4	3A		2	5.6					
29	3	CP-C8001	RIO-C8001-1	8	10	CAC900UA	N-REMOVAL FIRE ALARM	4	3B		4	1.2					
29	3	CP-C8001	RIO-C8001-1	8	11	CAC900TA	N-REMOVAL FIRE ALARM PANEL STATS	4	3B		4	3.4					
29	3	CP-C8001	RIO-C8001-1	8	12	C185-AF-2 DO/PH Fault	C185-AF-2 DO/PH Fault	4	3B		4	7.8					
29	3	CP-C8001	RIO-C8001-1	8	13	CAC705PSL	NITROGEN SUPPLY	4	3B		3	1.2					
29	3	CP-C8001	RIO-C8001-1	8	14	CAC710YS	C710 VALVE COMP/HAND	4	3B		3	3.4					
29	3	CP-C8001	RIO-C8001-1	8	15	CAC740YS	C740 VALVE COMP/HAND	4	3B		3	5.6					
29	3	CP-C8001	RIO-C8001-1	8	16	CAC700CH	TRUCK GROUNDING CONDUCTIVITY	4	3B		3	7.8					
29	3	CP-C8001	RIO-C8001-1	8	17	C185-AF-3 DO/PH Fault	C185-AF-3 DO/PH Fault	4	3B		1	1.2					
29	3	CP-C8001	RIO-C8001-1	8	18	C185-AF-4 NH3/NO2 Fault	C185-AF-4 NH3/NO2 Fault	4	3B		1	3.4					
29	3	CP-C8001	RIO-C8001-1	8	19	C960 RUN	C960 RUN	4	3B		1	5.6					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-1	8	20	CAC960YS	C860 IN COMPUTER			4 3B		1 7.8					
29	3	CP-C8001	RIO-C8001-1	8	21	C285-AF-2 DO/PH Fault	C285-AF-2 DO/PH Fault			4 3B		2 3.4					
29	3	CP-C8001	RIO-C8001-1	8	22	C285-AF-3 DO/PH Fault	C285-AF-3 DO/PH Fault			4 3B		2 5.6					
29	3	CP-C8001	RIO-C8001-1	8	23	CAC960AF	C860 STATUS			4 4A		4 1.2					
29	3	CP-C8001	RIO-C8001-1	8	24	C410 IN COMPUTER	C410 IN COMPUTER			4 4A		4 3.4					
29	3	CP-C8001	RIO-C8001-1	8	25	C410 RUN	C410 RUN			4 4A		4 5.6					
29	3	CP-C8001	RIO-C8001-1	8	26	C410 NORMAL	C410 NORMAL			4 4A		4 7.8					
29	3	CP-C8001	RIO-C8001-1	8	27	C420 IN COMPUTER	C420 IN COMPUTER			4 4A		3 1.2					
29	3	CP-C8001	RIO-C8001-1	8	28	C420 RUN	C420 RUN			4 4A		3 3.4					
29	3	CP-C8001	RIO-C8001-1	8	29	C420 NORMAL	C420 NORMAL			4 4A		3 5.6					
29	3	CP-C8001	RIO-C8001-1	8	30	C430 IN COMPUTER	C430 IN COMPUTER			4 4A		3 7.8					
29	3	CP-C8001	RIO-C8001-1	8	31	C440 NORMAL	C440 NORMAL			4 4A		1 1.2					
29	3	CP-C8001	RIO-C8001-1	9	0	C430 RUN	C430 RUN			4 4A		2 1.2					
29	3	CP-C8001	RIO-C8001-1	9	1	C430 NORMAL	C430 NORMAL			4 4A		2 3.4					
29	3	CP-C8001	RIO-C8001-1	9	2	C440 IN COMPUTER	C440 IN COMPUTER			4 4A		2 5.6					
29	3	CP-C8001	RIO-C8001-1	9	3	C440 RUN	C440 RUN			4 4A		2 7.8					
29	3	CP-C8001	RIO-C8001-1	9	4	C160 RUNNING	C160 RUNNING			4 4B		4 1.2					
29	3	CP-C8001	RIO-C8001-1	9	5	C160 REVERSING	C160 REVERSING			4 4B		4 3.4					
29	3	CP-C8001	RIO-C8001-1	9	6	C160 VFD NORMAL	C160 VFD NORMAL			4 4B		4 5.6					
29	3	CP-C8001	RIO-C8001-1	9	7	C160 IN COMPUTER	C160 IN COMPUTER			4 4B		4 7.8					
29	3	CP-C8001	RIO-C8001-1	9	8	C160 PRIMARY RAISED LIIC160	PRIMARY RAISED LIMIT			4 4B		3 1.2					
29	3	CP-C8001	RIO-C8001-1	9	9	C160 PRIMARY LOWER LIIC160	PRIMARY LOWER LIMIT			4 4B		3 3.4					
29	3	CP-C8001	RIO-C8001-1	9	10	C160 SECONDARY RAISEIC160	SECONDARY RAISED LIMIT			4 4B		3 5.6					
29	3	CP-C8001	RIO-C8001-1	9	11	C160 SECONDARY LOWEIC160	SECONDARY LOWER LIMIT			4 4B		3 7.8					
29	3	CP-C8001	RIO-C8001-1	9	12	CAC627MM	C627 Dehum FLT Stat SA Silo			4 4B		1 1.2					
29	3	CP-C8001	RIO-C8001-1	9	13	CAC627UA	C627 Dehum FLT Stat SA Silo			4 4B		1 3.4					
29	3	CP-C8001	RIO-C8001-1	9	14	CAC645AF1	C645 Conductivity Meter FLT			4 4B		1 5.6					
29	3	CP-C8001	RIO-C8001-1	9	15	CAC661YS	C661 Computer Selected LM PMP			4 4B		1 7.8					
29	3	CP-C8001	RIO-C8001-1	9	16	CAC661UA	C661 LM PMP FLT STSTUS			4 4B		2 1.2					
29	3	CP-C8001	RIO-C8001-1	9	17	C260 RUNNING	C260 RUNNING			4 5A		4 1.2					
29	3	CP-C8001	RIO-C8001-1	9	18	C260 REVERSING	C260 REVERSING			4 5A		4 3.4					
29	3	CP-C8001	RIO-C8001-1	9	19	C260 VFD NORMAL	C260 VFD NORMAL			4 5A		4 5.6					
29	3	CP-C8001	RIO-C8001-1	9	20	C260 IN COMPUTER	C260 IN COMPUTER			4 5A		4 7.8					
29	3	CP-C8001	RIO-C8001-1	9	21	C260 PRIMARY RAISED LIIC260	PRIMARY RAISED LIMIT			4 5A		3 1.2					
29	3	CP-C8001	RIO-C8001-1	9	22	C260 PRIMARY LOWER LIIC260	PRIMARY LOWER LIMIT			4 5A		3 3.4					
29	3	CP-C8001	RIO-C8001-1	9	23	C260 SECONDARY RAISEIC260	SECONDARY RAISED LIMIT			4 5A		3 5.6					
29	3	CP-C8001	RIO-C8001-1	9	24	C260 SECONDARY LOWEIC260	SECONDARY LOWER LIMIT			4 5A		3 7.8					
29	3	CP-C8001	RIO-C8001-1	9	25	C450 DISCHARGE P NORMC450	DISCHARGE P NORMAL			4 5A		1 1.2					
29	3	CP-C8001	RIO-C8001-1	9	26	C450 IN COMPUTER	C450 IN COMPUTER			4 5A		1 3.4					
29	3	CP-C8001	RIO-C8001-1	9	27	C450 RUN	C450 RUN			4 5A		1 5.6					
29	3	CP-C8001	RIO-C8001-1	9	28	C450 NORMAL	C450 NORMAL			4 5A		1 7.8					
29	3	CP-C8001	RIO-C8001-1	9	29	C450 INTAKE P NORMAL	C450 INTAKE P NORMAL			4 5A		2 5.6					
29	3	CP-C8001	RIO-C8001-1	9	30	C450 DISCHARGE T NORMC450	DISCHARGE T NORMAL			4 5A		2 7.8					
29	3	CP-C8001	RIO-C8001-1	9	31	122CAE04	SBR1 C122 COMP			4 6A		1 7.8					
29	3	CP-C8001	RIO-C8001-1	10	0	C112 CLOSED	C112 CLOSED			4 6A		2 1.2					
29	3	CP-C8001	RIO-C8001-1	10	1	C112 OPENED	C112 OPENED			4 6A		2 3.4					
29	3	CP-C8001	RIO-C8001-1	10	2	C112 MOVING	C112 MOVING			4 6A		2 5.6					
29	3	CP-C8001	RIO-C8001-1	10	3	C112 ALARM	C112 ALARM			4 6B		2 7.8					
29	3	CP-C8001	RIO-C8001-1	10	4	C122 COMP MODE	C122 COMP MODE			4 6B		4 3.4					
29	3	CP-C8001	RIO-C8001-1	10	5	C122 CLOSED	C122 CLOSED			4 6B		4 5.6					
29	3	CP-C8001	RIO-C8001-1	10	6	C122 OPENED	C122 OPENED			4 6B		4 7.8					
29	3	CP-C8001	RIO-C8001-1	10	7	C122 MOVING	C122 MOVING			4 6B		3 1.2					
29	3	CP-C8001	RIO-C8001-1	10	8	C122 ALARM	C122 ALARM			4 6B		3 3.4					
29	3	CP-C8001	RIO-C8001-1	10	9	132CAE04	SBR1 C132 COMP			4 6B		3 7.8					
29	3	CP-C8001	RIO-C8001-1	10	10	C132 CLOSED	C132 CLOSED			4 6B		1 1.2					
29	3	CP-C8001	RIO-C8001-1	10	11	C132 OPENED	C132 OPENED			4 6B		1 3.4					
29	3	CP-C8001	RIO-C8001-1	10	12	C132 MOVING	C132 MOVING			4 6B		1 5.6					
29	3	CP-C8001	RIO-C8001-1	10	13	C132 ALARM	C132 ALARM			4 6B		1 7.8					
29	3	CP-C8001	RIO-C8001-1	10	14	212CAE04	SBR2 C212 COMP			4 6B		2 3.4					
29	3	CP-C8001	RIO-C8001-1	10	15	C212 CLOSED	C212 CLOSED			4 6B		2 5.6					
29	3	CP-C8001	RIO-C8001-1	10	16	C212 OPENED	C212 OPENED			4 6B		2 7.8					
29	3	CP-C8001	RIO-C8001-1	10	17	C212 MOVING	C212 MOVING			4 7A		4 1.2					
29	3	CP-C8001	RIO-C8001-1	10	18	C212 ALARM	C212 ALARM			4 7A		4 3.4					
29	3	CP-C8001	RIO-C8001-1	10	19	C222 HAND MODE	C222 HAND MODE			4 7A		4 5.6					
29	3	CP-C8001	RIO-C8001-1	10	20	222CAE04	SBR2 C222 COMP			4 7A		4 7.8					
29	3	CP-C8001	RIO-C8001-1	10	21	C222 CLOSED	C222 CLOSED			4 7A		3 1.2					
29	3	CP-C8001	RIO-C8001-1	10	22	C222 OPENED	C222 OPENED			4 7A		3 3.4					
29	3	CP-C8001	RIO-C8001-1	10	23	C222 MOVING	C222 MOVING			4 7A		3 5.6					
29	3	CP-C8001	RIO-C8001-1	10	24	C222 ALARM	C222 ALARM			4 7A		3 7.8					
29	3	CP-C8001	RIO-C8001-1	10	25	C232 HAND MODE	C232 HAND MODE			4 7A		1 1.2					
29	3	CP-C8001	RIO-C8001-1	10	26	232CAE04	SBR2 C232 COMP			4 7A		1 3.4					
29	3	CP-C8001	RIO-C8001-1	10	27	C232 CLOSED	C232 CLOSED			4 7A		1 5.6					
29	3	CP-C8001	RIO-C8001-1	10	28	C232 OPENED	C232 OPENED			4 7A		1 7.8					
29	3	CP-C8001	RIO-C8001-1	10	29	C232 MOVING	C232 MOVING			4 7A		2 1.2					
29	3	CP-C8001	RIO-C8001-1	10	30	C232 ALARM	C232 ALARM			4 7A		2 3.4					
29	3	CP-C8001	RIO-C8001-1	10	31	CAC910ZS	N-REMOVAL ELEC RM MOTION			4 7B		4 5.6					
29	3	CP-C8001	RIO-C8001-1	11	0	CAC911ZS	N-REMOVAL ELE RMDOOR STATUS			4 7B		4 7.8					
29	3	CP-C8001	RIO-C8001-1	11	1	CAC912ZS	N-REMOVAL CTRL RM MOTION			4 7B		3 1.2					
29	3	CP-C8001	RIO-C8001-1	11	2	CAC913ZS	N-REMOVAL CTRL RM DOOR STATUS			4 7B		3 3.4					
29	3	CP-C8001	RIO-C8001-1	11	3	CAC914ZS	N-REMOVAL BLOWER RM MOTION			4 7B		3 5.6					
29	3	CP-C8001	RIO-C8001-1	11	4	CAC915ZS	N-REMOVAL BLOWER RM DOOR STATUS			4 7B		3 7.8					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-1	11	5	CAC916ZS	N-REMOVAL EF RM MOTION	4	7B		2.1.2						
29	3	CP-C8001	RIO-C8001-1	11	6	CAC917ZS	N-REMOVAL EF RM DOOR STATUS	4	7B		2.3.4						
29	3	CP-C8001	RIO-C8001-1	11	7		SPARE	3	2B		4.7.8						
29	3	CP-C8001	RIO-C8001-1	11	8		SPARE	3	2B		1.7.8						
29	3	CP-C8001	RIO-C8001-1	11	9		SPARE	3	4A		3.5.6						
29	3	CP-C8001	RIO-C8001-1	11	10		SPARE	3	4A		3.7.8						
29	3	CP-C8001	RIO-C8001-1	11	11		SPARE	3	4A		1.5.6						
29	3	CP-C8001	RIO-C8001-1	11	12		SPARE	3	4A		1.7.8						
29	3	CP-C8001	RIO-C8001-1	11	13		SPARE	3	4A		2.5.6						
29	3	CP-C8001	RIO-C8001-1	11	14		SPARE	3	4A		2.7.8						
29	3	CP-C8001	RIO-C8001-1	11	15		SPARE	3	4B		4.7.8						
29	3	CP-C8001	RIO-C8001-1	11	16		SPARE	3	4B		3.1.2						
29	3	CP-C8001	RIO-C8001-1	11	17		SPARE	3	4B		3.3.4						
29	3	CP-C8001	RIO-C8001-1	11	18		SPARE	3	4B		3.5.6						
29	3	CP-C8001	RIO-C8001-1	11	19		SPARE	3	4B		1.1.2						
29	3	CP-C8001	RIO-C8001-1	11	20		SPARE	3	4B		2.7.8						
29	3	CP-C8001	RIO-C8001-1	11	21		SPARE	3	5A		4.1.2						
29	3	CP-C8001	RIO-C8001-1	11	22		SPARE	3	5A		4.3.4						
29	3	CP-C8001	RIO-C8001-1	11	23		SPARE	3	5A		3.3.4						
29	3	CP-C8001	RIO-C8001-1	11	24		SPARE	3	5A		3.5.6						
29	3	CP-C8001	RIO-C8001-1	11	25		SPARE	3	5A		1.5.6						
29	3	CP-C8001	RIO-C8001-1	11	26		SPARE	3	5A		1.7.8						
29	3	CP-C8001	RIO-C8001-1	11	27		SPARE	3	5B		4.5.6						
29	3	CP-C8001	RIO-C8001-1	11	28		SPARE	3	5B		3.1.2						
29	3	CP-C8001	RIO-C8001-1	11	29		SPARE	3	5B		3.3.4						
29	3	CP-C8001	RIO-C8001-1	11	30		SPARE	3	5B		3.5.6						
29	3	CP-C8001	RIO-C8001-1	11	31		SPARE	3	5B		3.7.8						
29	3	CP-C8002	RIO-C8001-3	1	0		SPARE	3	5B		1.3.4						
29	3	CP-C8002	RIO-C8001-3	1	1		SPARE	3	5B		1.5.6						
29	3	CP-C8002	RIO-C8001-3	1	2		SPARE	3	6B		1.3.4						
29	3	CP-C8002	RIO-C8001-3	1	3		SPARE	3	6B		2.1.2						
29	3	CP-C8002	RIO-C8001-3	1	4		SPARE	3	8B		3.3.4						
29	3	CP-C8002	RIO-C8001-3	1	5		SPARE	3	8B		3.7.8						
29	3	CP-C8002	RIO-C8001-3	1	6		SPARE	3	8B		1.3.4						
29	3	CP-C8002	RIO-C8001-3	1	7		SPARE	3	8B		1.5.6						
29	3	CP-C8002	RIO-C8001-3	1	8		SPARE	3	8B		1.7.8						
29	3	CP-C8002	RIO-C8001-3	1	9		SPARE	4	3A		4.1.2						
29	3	CP-C8002	RIO-C8001-3	1	10		SPARE	4	3A		4.3.4						
29	3	CP-C8002	RIO-C8001-3	1	11		SPARE	4	3A		1.1.2						
29	3	CP-C8002	RIO-C8001-3	1	12		SPARE	4	3A		2.7.8						
29	3	CP-C8002	RIO-C8001-3	1	13		SPARE	4	3B		4.5.6						
29	3	CP-C8002	RIO-C8001-3	1	14		SPARE	4	3B		2.1.2						
29	3	CP-C8002	RIO-C8001-3	1	15		SPARE	4	3B		2.7.8						
29	3	CP-C8002	RIO-C8001-3	1	16		SPARE	4	4A		1.3.4						
29	3	CP-C8002	RIO-C8001-3	1	17		SPARE	4	4A		1.5.6						
29	3	CP-C8002	RIO-C8001-3	1	18		SPARE	4	4A		1.7.8						
29	3	CP-C8002	RIO-C8001-3	1	19		SPARE	4	4B		2.3.4						
29	3	CP-C8002	RIO-C8001-3	1	20		SPARE	4	4B		2.5.6						
29	3	CP-C8002	RIO-C8001-3	1	21		SPARE	4	4B		2.7.8						
29	3	CP-C8002	RIO-C8001-3	1	22		SPARE	4	5A		2.1.2						
29	3	CP-C8002	RIO-C8001-3	1	23		SPARE	4	5A		2.3.4						
29	3	CP-C8002	RIO-C8001-3	1	24		SPARE	4	5B		4.1.2						
29	3	CP-C8002	RIO-C8001-3	1	25		SPARE	4	5B		4.3.4						
29	3	CP-C8002	RIO-C8001-3	1	26		SPARE	4	5B		4.5.6						
29	3	CP-C8002	RIO-C8001-3	1	27		SPARE	4	5B		4.7.8						
29	3	CP-C8002	RIO-C8001-3	1	28		SPARE	4	5B		3.1.2						
29	3	CP-C8002	RIO-C8001-3	1	29		SPARE	4	5B		3.3.4						
29	3	CP-C8002	RIO-C8001-3	1	30		SPARE	4	5B		3.5.6						
29	3	CP-C8002	RIO-C8001-3	1	31		SPARE	4	5B		3.7.8						
29	3						SPARE - NOT MIGRATED	4	5B		1.1.2						
29	3						SPARE - NOT MIGRATED	4	5B		1.3.4						
29	3						SPARE - NOT MIGRATED	4	5B		1.5.6						
29	3						SPARE - NOT MIGRATED	4	5B		1.7.8						
29	3						SPARE - NOT MIGRATED	4	5B		2.1.2						
29	3						SPARE - NOT MIGRATED	4	5B		2.3.4						
29	3						SPARE - NOT MIGRATED	4	5B		2.5.6						
29	3						SPARE - NOT MIGRATED	4	5B		2.7.8						
29	3						SPARE - NOT MIGRATED	4	6A		4.1.2						
29	3						SPARE - NOT MIGRATED	4	6A		4.3.4						
29	3						SPARE - NOT MIGRATED	4	6A		4.5.6						
29	3						SPARE - NOT MIGRATED	4	6A		4.7.8						
29	3						SPARE - NOT MIGRATED	4	6A		3.1.2						
29	3						SPARE - NOT MIGRATED	4	6A		3.3.4						
29	3						SPARE - NOT MIGRATED	4	6A		3.5.6						
29	3						SPARE - NOT MIGRATED	4	6A		3.7.8						
29	3						SPARE - NOT MIGRATED	4	6A		1.1.2						
29	3						SPARE - NOT MIGRATED	4	6A		1.3.4						
29	3						SPARE - NOT MIGRATED	4	6A		1.5.6						
29	3						SPARE - NOT MIGRATED	4	6B		4.1.2						
29	3						SPARE - NOT MIGRATED	4	6B		3.5.6						
29	3						SPARE - NOT MIGRATED	4	6B		2.1.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3						SPARE - NOT MIGRATED	4	7A		2.5.6						
29	3						SPARE - NOT MIGRATED	4	7A		2.7.8						
29	3						SPARE - NOT MIGRATED	4	7B		4.1.2						
29	3						SPARE - NOT MIGRATED	4	7B		4.3.4						
29	3						SPARE - NOT MIGRATED	4	7B		1.1.2						
29	3						SPARE - NOT MIGRATED	4	7B		1.3.4						
29	3						SPARE - NOT MIGRATED	4	7B		1.5.6						
29	3						SPARE - NOT MIGRATED	4	7B		1.7.8						
29	3						SPARE - NOT MIGRATED	4	7B		2.5.6						
29	3						SPARE - NOT MIGRATED	4	7B		2.7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
29	3	CP-C8002	RIO-C8001-3	2	0		C650 START		3	2D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	2	1		SODA ASH WET SCRUBER VALVE CTRL)		3	2D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	2	2		C645-EF START		3	2D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	2	3		C791 VLV OPEN CMD		3	2D	2	1.2					
29	3	CP-C8002	RIO-C8001-3	2	4		C640 START		3	2D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	2	5		C640 RUN PERMISSIVE		3	2D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	2	6		C106 OPEN		3	2D	2	7.8					
29	3	CP-C8002	RIO-C8001-3	2	7		C620 START		3	2C	1	1.2					
29	3	CP-C8002	RIO-C8001-3	2	8		C690 OPEN CMD		3	2C	1	3.4					
29	3	CP-C8002	RIO-C8001-3	2	9		C690 CLOSE CMD		3	2C	1	5.6					
29	3	CP-C8002	RIO-C8001-3	2	10		C695 OPEN CMD		3	2C	1	7.8					
29	3	CP-C8002	RIO-C8001-3	2	11		C695 CLOSE CMD		3	2C	2	1.2					
29	3	CP-C8002	RIO-C8001-3	2	12		C615 START		3	2C	2	3.4					
29	3	CP-C8002	RIO-C8001-3	2	13		C630 START		3	2C	2	5.6					
29	3	CP-C8002	RIO-C8001-3	2	14		C625 START		3	2C	2	7.8					
29	3	CP-C8002	RIO-C8001-3	2	15		C220 START		3	3D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	3	0		C230 START		3	3D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	3	1		C240 START		3	3D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	3	2		C250 START		3	3D	1	7.8					
29	3	CP-C8002	RIO-C8001-3	3	3		C310 START		3	3D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	3	4		C320 START		3	3D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	3	5		C330 START		3	3D	2	7.8					
29	3	CP-C8002	RIO-C8001-3	3	6		C110 START		3	3C	1	1.2					
29	3	CP-C8002	RIO-C8001-3	3	7		C120 START		3	3C	1	3.4					
29	3	CP-C8002	RIO-C8001-3	3	8		C130 START		3	3C	1	5.6					
29	3	CP-C8002	RIO-C8001-3	3	9		C140 START		3	3C	1	7.8					
29	3	CP-C8002	RIO-C8001-3	3	10		C150 START		3	3C	2	1.2					
29	3	CP-C8002	RIO-C8001-3	3	11		C206 OPEN		3	3C	2	5.6					
29	3	CP-C8002	RIO-C8001-3	3	12		C210 START		3	3C	2	7.8					
29	3	CP-C8002	RIO-C8001-3	3	13		C791 VLV CLOSE CMD)		3	4D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	3	14		C521 START		3	4D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	3	15		EXHUAUST DAMPER CONTROL)		3	4D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	4	0		C795 VLV OPEN CMD		3	4D	1	7.8					
29	3	CP-C8002	RIO-C8001-3	4	1		C522 START		3	4D	2	1.2					
29	3	CP-C8002	RIO-C8001-3	4	2		EXHAUST DAMPER CONTROL)		3	4D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	4	3		C795 VLV CLOSE CMD		3	4D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	4	4		C523 START		3	4D	2	7.8					
29	3	CP-C8002	RIO-C8001-3	4	5		C330 RUN PERMISSIVE		3	4C	1	1.2					
29	3	CP-C8002	RIO-C8001-3	4	6		C340 START		3	4C	1	3.4					
29	3	CP-C8002	RIO-C8001-3	4	7		C340 RUN PERMISSIVE		3	4C	1	5.6					
29	3	CP-C8002	RIO-C8001-3	4	8		C510 START		3	4C	1	7.8					
29	3	CP-C8002	RIO-C8001-3	4	9		C510 RUM PERMISSIVE		3	4C	2	1.2					
29	3	CP-C8002	RIO-C8001-3	4	10		C510 VFD BYPASS TD		3	4C	2	3.4					
29	3	CP-C8002	RIO-C8001-3	4	11		C510 VFD SELECT TD		3	4C	2	5.6					
29	3	CP-C8002	RIO-C8001-3	4	12		EXHAUST DAMPER CONTROL)		3	4C	2	7.8					
29	3	CP-C8002	RIO-C8001-3	4	13		C540 START		4	2D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	4	14		C720 HIGH LEVEL NORMAL		4	2D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	4	15		C730 START PERMISSIVE		4	2D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	5	0		C550 START		4	2D	1	7.8					
29	3	CP-C8002	RIO-C8001-3	5	1		C626 ENABLE COMMAND		4	2D	2	1.2					
29	3	CP-C8002	RIO-C8001-3	5	2		DX HEAT PUMP START/STOP)		4	2D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	5	3		C600 UNLOAD READY LIGHT		4	2D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	5	4		C560 START)		4	2D	2	7.8					
29	3	CP-C8002	RIO-C8001-3	5	5		EXHAUST DAMPER CONTROL)		4	2C	1	1.2					
29	3	CP-C8002	RIO-C8001-3	5	6		C661 START)		4	2C	1	3.4					
29	3	CP-C8002	RIO-C8001-3	5	7		C524 START)		4	2C	1	5.6					
29	3	CP-C8002	RIO-C8001-3	5	8		EXHAUST DAMPER CONTROL)		4	2C	1	7.8					
29	3	CP-C8002	RIO-C8001-3	5	9		C530 START		4	2C	2	3.4					
29	3	CP-C8002	RIO-C8001-3	5	10		EXHAUST DAMPER CONTROL)		4	2C	2	5.6					
29	3	CP-C8002	RIO-C8001-3	5	11		C550 CALL FOR MECHANICAL COOLING		4	2C	2	7.8					
29	3	CP-C8002	RIO-C8001-3	5	12		N2 VALVE CNTRL OPEN/CLOSE)		4	3D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	5	13		C710 CLOSE CMD		4	3D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	5	14		C710 OPEN CMD		4	3D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	5	15		C730 START		4	3D	1	7.8					
29	3	CP-C8002	RIO-C8001-3	6	0		C740 CLOSE CMD		4	3D	2	1.2					
29	3	CP-C8002	RIO-C8001-3	6	1		C740 OPEN CMD		4	3D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	6	2		C760 START		4	3D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	6	3		EXHAUST DAMPER CONTROL)		4	3C	1	1.2					
29	3	CP-C8002	RIO-C8001-3	6	4		C580 START		4	3C	1	5.6					
29	3	CP-C8002	RIO-C8001-3	6	5		C700 UNLOAD READY LIGHT, C720/C750 PUF		4	3C	1	7.8					
29	3	CP-C8002	RIO-C8001-3	6	6		C720 LEVEL HIGH LIGHT		4	3C	2	1.2					
29	3	CP-C8002	RIO-C8001-3	6	7		C750 LEVEL HIGH LIGHT		4	3C	2	3.4					
29	3	CP-C8002	RIO-C8001-3	6	8		C750 MALFUNCTION SIREN		4	3C	2	5.6					
29	3	CP-C8002	RIO-C8001-3	6	9		N2 PURGE LINE VALVE CONTROL)		4	3C	2	7.8					
29	3	CP-C8002	RIO-C8001-3	6	10		C440 START PERMIT		4	4D	1	1.2					
29	3	CP-C8002	RIO-C8001-3	6	11		C160 RAISE UP		4	4D	1	3.4					
29	3	CP-C8002	RIO-C8001-3	6	12		C160 LOWER DOWN		4	4D	1	5.6					
29	3	CP-C8002	RIO-C8001-3	6	13		C260 RAISE UP		4	4D	1	7.8					
29	3	CP-C8002	RIO-C8001-3	6	14		C260 RAISE UP		4	4D	2	1.2					
29	3	CP-C8002	RIO-C8001-3	6	15		C260 LOWER DOWN		4	4D	2	3.4					
29	3	CP-C8002	RIO-C8001-3	7	0		C750 HIGH LEVEL NORMAL		4	4D	2	5.6					
29	3	CP-C8002	RIO-C8001-3	7	1		C760 START PERMISSIVE		4	4D	2	7.8					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Analog Inputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-2	1	0	CAC005LT	DISTRIBUTION CHAMBER LEVEL	1	2A	1	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	1	CAC665FT	SUPPLY WATER FLOW	1	2A	1	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	2	CAC670FT	SBR1 SA DOSING RATE	1	2A	1	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	3	CAC680FT	SBR2 SA DOSING RATE	1	2A	1	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	4	CAC660ZT	SUPPLY WATER VALVE POSTION	1	2A	2	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	5	CAC675ZT	SBR1 SA DOSING VALVE POSITIN	1	2A	2	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	6	CAC685ZT	SBR2 SA DOSING VALVE POSITIN	1	2A	2	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	1	7	CAC645LT	SODA SOLUTION TANK LEVEL SENSOR 1	1	2A	2	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	0	CAC610LT	SODA ASH SILO LEVEL	1	2A	3	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	1	CAC640ST	DRY FEEDER SPEED	1	2A	3	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	2	CAC010ZT	C010 WEIR GATE POSITION	1	2A	3	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	3	CAC020ZT	C020 WEIR GATE POSITION	1	2A	3	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	4	CAC645LT1	SODA SOLUTION TANK LEVEL SENSOR 2	1	2A	4	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	5	CAC100LT2	SBR1 TANK LEVEL SENSOR 1	1	2A	4	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	6	CAC185AT1	C185 DO Level SBR1 Areation Z1	1	2A	4	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	2	7		C185 PH LEVEL	1	2B	1	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	0	100C420FT	C420 NREMOVAL AIR FLOW TRANSMIT	1	2B	1	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	1	CAC200LT2	SBR2 TANK LEVEL SENSOR 1	1	2B	1	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	2		C285 DO LEVEL	1	2B	1	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	3	CAC285TT	SBR2 TEMPERATURE	1	2B	2	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	4		C285 PH LEVEL	1	2B	2	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	5	100C410FT	C410 NREMOVAL AIR FLOW TRANSM	1	2B	2	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	6	CAC300LT2	EQUALIZATION TKN LEVEL SENSOR 2	1	2B	2	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	3	7	CAC300PT	C300 EQUALIZATION TANK PRESSURE	1	2B	3	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	0	CAC330ST	C330 EQ EFFLUENTPUMP SPEED	1	2B	3	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	1	CAC340ST	C340 EQ EFFLUENTPUMP SPEED	1	2B	3	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	2	200C430FT	C430 N REMOVAL AIR FLOW TRANMITT	1	2B	3	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	3	CAC410TT	C410-AB INTAKE TEMPERATURE	1	2B	4	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	4	CAC410PDIT	C410-AB FILTER DIFF PRESSURE	1	2B	4	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	5	CAC720LT1	C720 TANK LEVEL1	1	2B	4	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	6	CAC420PDIT	C420-AB FILTER DIFF PRESSURE	1	3A	1	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	4	7	CAC427PT	SBR 1 AERATION PRESSURE	1	3A	1	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	0	CAC100LT1	SBR1 TANK LEVEL SENSOR 0	1	3A	1	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	1	CAC430TT	C430-AB INTAKE TEMPERATURE	1	3A	1	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	2	CAC430PDIT	C430-AB FILTER DIFF PRESSURE	1	3A	2	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	3	CAC437PT	SBR 2 AERATION PRESSURE	1	3A	2	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	4	CAC750LT1	C750 TANK LEVEL1	1	3A	2	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	5	CAC440TT	C440-AB INTAKE TEMPERATURE	1	3A	2	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	6	CAC440PDIT	C440-AB FILTER DIFF PRESSURE	1	3A	3	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	5	7	CAC510ST	C510 EXHAUST FAN SPEED	1	3A	3	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	0	CAC521TT	C521 BLOWER RM TEMPERATURE	1	3A	3	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	1	CAC521ST	C521 EF SPEED	1	3A	3	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	2	CAC522TT	C522 BLOWER RM TEMPERATURE	1	3A	4	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	3	CAC522ST	C522 EF SPEED	1	3A	4	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	4	CAC523TT	C523 BLOWER RM TEMPERATURE	1	3A	4	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	5	CAC524TT	C524 BLOWER RM TEMPERATURE	1	3B	1	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	6	CAC524ST	C524 EF SPEED	1	3B	1	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	6	7	CAC530TT	C530 SAMPLER RM TEMPERATURE	1	3B	1	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	0	CAC540TT	EXHAUST FAN ROOM TEMPERATURE	1	3B	1	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	1	CAC540ST	C540 EF SPEED	1	3B	2	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	2	CAC550TT	N-REMOVAL CONTROL RM TEMP	1	3B	2	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	3	CAC560TT	ELEC RM AIR TEMP	1	3B	2	5.6	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	4	CAC560ST	ELEC ROOM SUPPLY FAN SPEED	1	3B	2	7.8	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	5	CAC580TT	ELEC RM AIR TEMP	1	3B	3	1.2	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	6	CAC580ST	ELEC ROOM RETURN FAN SPEED	1	3B	3	3.4	24 VDC	4-20MA				
29	3	CP-C8001	RIO-C8001-2	7	7	CAC705PT	C705 TRUCK PURGELINE PRESSURE	1	3B	3	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	0	200C440FT	C440 NREMOVAL AIR FLOW TRANMITT	1	3B	3	7.8	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	1	CAC720LT2	C720 TANK LEVEL2	1	3B	4	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	2	CAC722PT	METHANOL TANK C720 PRESSURE	1	3B	4	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	3	CAC730TT	SBR METH DOSING PUMP C730 TEMP	1	4A	1	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	4	CAC600TT	SODA ASH SILO TEMPERATURE	1	4A	1	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	5	CAC750LT2	C750 TANK LEVEL2	1	4A	1	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	6	CAC752PT	METHANOL TANK C750 PRESSURE	1	4A	1	7.8	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	1	7	CAC760PT	SBR METH DOSING PUMP2 PRESSURE	1	4A	2	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	0	CAC760TT	SBR METH DOSING PUMP C760 TEMP	1	4A	2	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	1	CAC410ST	SBR1 BLOWER SPEED	1	4A	3	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	2	CAC410IT	C410 BLOWER CURRENT	1	4A	3	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	3	CAC420ST	C420-AB SPEED	1	4A	3	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	4	CAC420IT	SBR1 BLOWER CURRENT	1	4A	3	7.8	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	5	CAC430ST	C430-AB SPEED	1	4A	4	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	6	CAC430IT	C430 BLOWER CURRENT	1	4A	4	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	2	7	CAC440ST	C440-AB SPEED	1	4A	4	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	0	CAC160ST	SBR1 DECANter SPEED	1	4B	1	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	1	CAC260ST	SBR2 DECANter SPEED	1	4B	1	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	2	CAC450TT	UNLOAD BLOWER INTAKE TEMP	1	4B	1	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	3	CAC450PDIT	UNLOAD BLOWER FILTER STATUS	1	4B	1	7.8	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	4	CAC200LT1	SBR2 TANK LEVEL SENSOR 0	1	4B	2	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	5	CAC410TE1A	C410 PHASE A TEMPERATURE	1	4B	2	3.4	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	6	CAC410TE2A	C410 PHASE B TEMPERATURE	1	4B	2	5.6	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	3	7	CAC410TE2A	C410 PHASE C TEMPERATURE	1	4B	2	7.8	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	4	0	CAC410TE4	C410 INBOARD BEARING TEMP	1	4B	3	1.2	24 VDC	4-20MA				
29	3	CP-C8002	RIO-C8001-4	4	1	CAC410TE5	C410 OUTBOARD BEARING TEMP	1	4B	3	3.4	24 VDC	4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - CENTRATE

Analog Output

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
29	3	CP-C8001	RIO-C8001-5	1	0	660CAA01	WATER VALVE FLOW RATE CNTL)	1 5C			4 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	1	1	675CAA01	SBR1 SA DOSING VALVE CONTRL)	1 5C			4 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	1	2	685CAA01	SBR2 SA DOSING VALVE CONTRL)	1 5C			4 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	1	3	640CAA01	DRY FEEDER SPEED CONTROL)	1 5C			4 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	2	0	010CAA01	SBR1 WEIRGATE CONTROL	1 5C			3 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	2	1	020CAA01	SBR2 WEIRGATE CONTROL	1 5C			3 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	2	2	184CAE01	AIR INLET VALVE CLOSE CONTROL)	1 5C			3 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	2	3	521CAA01	EXHAUST FAN SPEED CONTROL	1 5C			1 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	3	0	522CAE01	INLET AIR DAMPERCONTROL)	1 5C			1 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	3	1	522CAA01	EXHAUST FAN SPEED CONTROL)	1 5C			1 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	3	2	523CAE01	INLET AIR DAMPERCONTROL)	1 5C			1 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	3	3	330CAA01	C330 SPEED CNTL	1 5C			2 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	4	0	340CAA01	C340 SPEED CTRL	1 5C			2 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	4	1	510CAA01	C510 EXHAUST FANSPEED CONTROL	1 5C			2 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	4	2	523CAA01	EXHAUST FAN SPEED CONTROL	1 5D			4 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	4	3	524CAE01	INLET AIR DAMPERCONTROL)	1 5D			4 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	5	0	524CAA01	EXHAUST FAN SPEED CONTROL)	1 5D			4 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	5	1	530CAE01	INLET AIR DAMPER)	1 5D			4 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	5	2	540CAE01	INLET AIR DAMPERCONTROL)	1 5D			3 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	5	3	540CAA01	EXHAUST FAN SPEED CONTROL)	1 5D			3 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	6	0	550CAE02	C550 MD CONTROL)	1 5D			3 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	6	1	560CAE01	INLET AIR DAMPERCONTROL)	1 5D			1 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	6	2	560CAA01	C560 SF SPEED CONTROL	1 5D			2 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	6	3	580CAA01	C580 EF SPEED CONTROL)	1 5D			2 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	7	0	420CAA01	C420 SPEED CTRL	1 6C			4 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	7	1	430CAA01	C430 SPEED CNTL	1 6C			4 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	7	2	440CAA01	C440 SPEED CTRL	1 6C			4 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	7	3	160CAA01	C160 DECANter SPEED CTRL	1 6C			3 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	8	0	260CAA01	SBR2 DECANter SPEED CONTROL	1 6C			3 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	8	1	410CAA01	C410 SPEED CNTL)	1 6C			3 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	8	2	284CAE01	AIR INLET VALVE CLOSE CONTROL)	1 6C			1 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	8	3	521CAE01	INLET AIR DAMPERCONTROL)	1 6C			1 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5	9	0			1 5D			2 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	9	1			1 5D			1 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	9	2		SPARE	1 5D			1 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	9	3		SPARE	1 5D			1 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	10	0		SPARE	1 6C			4 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5	10	1		SPARE	1 6C			1 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5	10	2		SPARE	1 6C			1 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5	10	3		SPARE	1 6C			2 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6C			2 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6C			2 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			4 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			4 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			4 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			4 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			3 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			3 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			3 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			1 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			1 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			1 5.6						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			1 7.8						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			2 1.2						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			2 3.4						4-20MA
29	3	CP-C8001	RIO-C8001-5				SPARE - NOT MIGRATED	1 6D			2 5.6						4-20MA

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3	CP-W8001	RIO-W8001-1	1	0	WAW010YS	SL FD VLV1 C-H	2	2B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	1	1	WAW010ZB	SL FD VLV1 CLS	2	2B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	1	2	WAW010ZD	SL FD VLV1 OPN	2	2B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	1	3	WAW011YS	F WTR VLV1 R-H	2	2B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	1	4	WAW011ZB	F WTR VLV1 CLS	2	2B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	1	5	WAW011ZD	F WTR VLV1 OPN	2	2B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	1	6	WAW110MM	SL FD PP1 RUN	2	2B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	1	7	WAW110QF	SL FD PP1 FAIL	2	2B		3	7.8					
24	3	CP-W8001	RIO-W8001-1	1	8	WAW110YS	SL FD PP1 C-H	2	2B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	1	9	WAW111MM	POL FD PP1 RUN	2	2B		1	3.4					
24	3	CP-W8001	RIO-W8001-1	1	10	WAW111QF	POL FD PP1 F	2	2B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	1	11	WAW111YS	POL FD PP1 C-H	2	2B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	1	12	WAW250ZB	FD TK1 VLV CLS	2	2B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	1	13	WAW250ZD	FD TK1 VLV OPN	2	2B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	1	14	WAW020YS	SL FD VLV2 C-H	2	3B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	1	15	WAW020ZB	SL FD VLV2 CLS	2	3B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	1	16	WAW020ZD	SL FD VLV2 OPN	2	3B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	1	17	WAW021YS	F WTR VLV2 R-H	2	3B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	1	18	WAW021ZB	F WTR VLV2 CLS	2	3B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	1	19	WAW021ZD	F WTR VLV2 OPN	2	3B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	1	20	WAW120MM	SL FD PP2 RUN	2	3B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	1	21	WAW120QF	SL FD PP2 FAIL	2	3B		3	7.8					
24	3	CP-W8001	RIO-W8001-1	1	22	WAW120YS	SL FD PP2 C-H	2	3B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	1	23	WAW121MM	POL FD PP2 RUN	2	3B		1	3.4					
24	3	CP-W8001	RIO-W8001-1	1	24	WAW121QF	POL FD PP2 F	2	3B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	1	25	WAW121YS	POL FD PP2 C-H	2	3B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	1	26	WAW260ZB	FD TK2 VLV CLS	2	3B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	1	27	WAW260ZD	FD TK2 VLV OPN	2	3B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	1	28	WAW030YS	SL FD VLV3 C-H	2	2D		4	1.2					
24	3	CP-W8001	RIO-W8001-1	1	29	WAW030ZB	SL FD VLV3 CLS	2	2D		4	3.4					
24	3	CP-W8001	RIO-W8001-1	1	30	WAW030ZD	SL FD VLV3 OPN	2	2D		4	5.6					
24	3	CP-W8001	RIO-W8001-1	1	31	WAW031YS	F WTR VLV3 R-H	2	2D		4	7.8					
24	3	CP-W8001	RIO-W8001-1	2	0	WAW031ZB	F WTR VLV3 CLS	2	2D		3	1.2					
24	3	CP-W8001	RIO-W8001-1	2	1	WAW031ZD	F WTR VLV3 OPN	2	2D		3	3.4					
24	3	CP-W8001	RIO-W8001-1	2	2	WAW130MM	SL FD PP3 RUN	2	2D		3	5.6					
24	3	CP-W8001	RIO-W8001-1	2	3	WAW130QF	SL FD PP3 FAIL	2	2D		3	7.8					
24	3	CP-W8001	RIO-W8001-1	2	4	WAW130YS	SL FD PP3 C-H	2	2D		1	1.2					
24	3	CP-W8001	RIO-W8001-1	2	5	WAW131MM	POL FD PP3 RUN	2	2D		1	3.4					
24	3	CP-W8001	RIO-W8001-1	2	6	WAW131QF	POL FD PP3 F	2	2D		1	5.6					
24	3	CP-W8001	RIO-W8001-1	2	7	WAW131YS	POL FD PP3 C-H	2	2D		1	7.8					
24	3	CP-W8001	RIO-W8001-1	2	8	WAW100FA	CENTRATE FLOW BYPASS	2	2D		2	1.2					
24	3	CP-W8001	RIO-W8001-1	2	9	WAW040YS	SL FD VLV4 C-H	2	3D		4	1.2					
24	3	CP-W8001	RIO-W8001-1	2	10	WAW040ZB	SL FD VLV4 CLS	2	3D		4	3.4					
24	3	CP-W8001	RIO-W8001-1	2	11	WAW040ZD	SL FD VLV4 OPN	2	3D		4	5.6					
24	3	CP-W8001	RIO-W8001-1	2	12	WAW041YS	F WTR VLV4 R-H	2	3D		4	7.8					
24	3	CP-W8001	RIO-W8001-1	2	13	WAW041ZB	F WTR VLV4 CLS	2	3D		3	1.2					
24	3	CP-W8001	RIO-W8001-1	2	14	WAW041ZD	F WTR VLV4 OPN	2	3D		3	3.4					
24	3	CP-W8001	RIO-W8001-1	2	15	WAW140MM	SL FD PP4 RUN	2	3D		3	5.6					
24	3	CP-W8001	RIO-W8001-1	2	16	WAW140QF	SL FD PP4 FAIL	2	3D		3	7.8					
24	3	CP-W8001	RIO-W8001-1	2	17	WAW140YS	SL FD PP4 C-H	2	3D		1	1.2					
24	3	CP-W8001	RIO-W8001-1	2	18	WAW141MM	POL FD PP4 RUN	2	3D		1	3.4					
24	3	CP-W8001	RIO-W8001-1	2	19	WAW141QF	POL FD PP4 F	2	3D		1	5.6					
24	3	CP-W8001	RIO-W8001-1	2	20	WAW141YS	POL FD PP4 C-H	2	3D		1	7.8					
24	3	CP-W8001	RIO-W8001-1	2	21	WAW368MM	CC PP5 RUN	2	3D		2	3.4					
24	3	CP-W8001	RIO-W8001-1	2	22	WAW368FA	CC PP5 FAIL	2	3D		2	5.6					
24	3	CP-W8001	RIO-W8001-1	2	23	WAW368YS	CC PP2 C/H	2	3D		2	7.8					
24	3	CP-W8001	RIO-W8001-1	2	24	WAW050YS	SL FD VLV5 C-H	2	9B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	2	25	WAW050ZB	SL FD VLV5 CLS	2	9B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	2	26	WAW050ZD	SL FD VLV5 OPN	2	9B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	2	27	WAW051YS	F WTR VLV5 R-H	2	9B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	2	28	WAW051ZB	F WTR VLV5 CLS	2	9B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	2	29	WAW051ZD	F WTR VLV5 OPN	2	9B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	2	30	WAW150MM	SL FD PP5 RUN	2	9B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	2	31	WAW150QF	SL FD PP5 FAIL	2	9B		3	7.8					
24	3	CP-W8001	RIO-W8001-1	3	0	WAW150YS	SL FD PP5 C-H	2	9B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	3	1	WAW151MM	POL FD PP5 RUN	2	9B		1	3.4					
24	3	CP-W8001	RIO-W8001-1	3	2	WAW151QF	POL FD PP5 F	2	9B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	3	3	WAW151YS	POL FD PP5 C-H	2	9B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	3	4	WAW235LL	MIX TK1 LVL LO	2	9B		2	1.2					
24	3	CP-W8001	RIO-W8001-1	3	5	WAW235LX	MIX TK1 LVL	2	9B		2	3.4					
24	3	CP-W8001	RIO-W8001-1	3	6	WAW235LH	MIX TK1 LVL HI	2	9B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	3	7	WAW235LA	MIX TK1 LVL ALM	2	9B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	3	8	WAW060YS	SL FD VLV6 C-H	2	8B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	3	9	WAW060ZB	SL FD VLV6 CLS	2	8B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	3	10	WAW060ZD	SL FD VLV6 OPN	2	8B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	3	11	WAW061YS	F WTR VLV6 R-H	2	8B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	3	12	WAW061ZB	F WTR VLV6 CLS	2	8B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	3	13	WAW061ZD	F WTR VLV6 OPN	2	8B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	3	14	WAW160MM	SL FD PP6 RUN	2	8B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	3	15	WAW160QF	SL FD PP6 FAIL	2	8B		3	7.8					
24	3	CP-W8001	RIO-W8001-1	3	16	WAW160YS	SL FD PP6 C-H	2	8B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	3	17	WAW161MM	POL FD PP6 RUN	2	8B		1	3.4					
24	3	CP-W8001	RIO-W8001-1	3	18	WAW161QF	POL FD PP6 F	2	8B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	3	19	WAW161YS	POL FD PP6 C-H	2	8B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	3	20	WAW245LL	MIX TK2 LVL LO	2	8B		2	1.2					
24	3	CP-W8001	RIO-W8001-1	3	21	WAW245LX	MIX TK2 LVL	2	8B		2	3.4					
24	3	CP-W8001	RIO-W8001-1	3	22	WAW245LH	MIX TK2 LVL HI	2	8B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	3	23	WAW245LA	MIX TK2 LVL ALM	2	8B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	3	24	WAW350MM	XFR PP1 RUN	2	7B		4	7.8					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3	CP-W8001	RIO-W8001-1	3	25	WAW350PA	XFR PP1 SEAL	2	7B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	3	26	WAW350YS	XFR PP1 C/H	2	7B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	3	27	WAW210MM	DRY FDR1 RUN	2	7B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	3	28	WAW211MM	LIQ PP1 RUN	2	7B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	3	29	WAW212MM	DRY BWR1 RUN	2	7B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	3	30	WAW233PL	JETWET1 RES	2	7B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	3	31	WAW213MM	LIQ TK1 MXR RN	2	7B		2	1.2					
24	3	CP-W8001	RIO-W8001-1	4	0	WAW212PL	DRY BWR1 PRES	2	7B		2	3.4					
24	3	CP-W8001	RIO-W8001-1	4	1	WAW232ZB	MIX TK1 VLV CLS	2	7B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	4	2	WAW232ZD	MIX TK1 VLV OPN	2	7B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	4	3	WAW320ZB	TK6 FD VLV CLS	2	6B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	4	4	WAW320ZD	TK6 FD VLV OPN	2	6B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	4	5	WAW320YS	TK6 FD VLV C/H	2	6B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	4	6	WAW360MM	XFR PP2 RUN	2	6B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	4	7	WAW360PA	XFR PP2 SEAL	2	6B		3	1.2					
24	3	CP-W8001	RIO-W8001-1	4	8	WAW360YS	XFR PP2 C/H	2	6B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	4	9	WAW220MM	DRY FDR2 RUN	2	6B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	4	10	WAW221MM	LIQ PP2 RUN	2	6B		1	1.2					
24	3	CP-W8001	RIO-W8001-1	4	11	WAW222MM	DRY BWR2 RUN	2	6B		1	5.6					
24	3	CP-W8001	RIO-W8001-1	4	12	WAW243PL	JETWET2 RES	2	6B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	4	13	WAW223MM	LIQ TK2 MXR RN	2	6B		2	1.2					
24	3	CP-W8001	RIO-W8001-1	4	14	WAW212PL	DRY BWR2 PRES	2	6B		2	3.4					
24	3	CP-W8001	RIO-W8001-1	4	15	WAW242ZB	MIX TK2 VLV CLS	2	6B		2	5.6					
24	3	CP-W8001	RIO-W8001-1	4	16	WAW242ZD	MIX TK2 VLV OPN	2	6B		2	7.8					
24	3	CP-W8001	RIO-W8001-1	4	17	WAW230MM	MIX TK1 MXR RN	2	5B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	4	18	WAW214LA	DRY BIN1 LVL	2	5B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	4	19	WAW340ZB	TK8 FD VLV CLS	2	4B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	4	20	WAW340ZD	TK8 FD VLV OPN	2	4B		4	3.4					
24	3	CP-W8001	RIO-W8001-1	4	21	WAW340YS	TK8 FD VLV C/H	2	4B		4	5.6					
24	3	CP-W8001	RIO-W8001-1	4	22	WAW381YS	RECC VLV2 C-H	2	4B		4	7.8					
24	3	CP-W8001	RIO-W8001-1	4	23	WAW381ZB	RECC VLV2 CLS	2	4B		4	1.2					
24	3	CP-W8001	RIO-W8001-1	4	24	WAW381ZD	RECC VLV2 OPN	2	4B		3	3.4					
24	3	CP-W8001	RIO-W8001-1	4	25	WAW240MM	MIX TK2 MXR RN	2	4B		3	5.6					
24	3	CP-W8001	RIO-W8001-1	4	26	WAW224LA	DRY BIN2 LVL	2	4B		1	7.8					
24	3	CP-W8001	RIO-W8001-1	4	27	WAW321YS	TK6 CC OUT C-H	2	2A		1	1.2					
24	3	CP-W8001	RIO-W8001-1	4	28	WAW321ZB	TK6 CC OUT CLS	2	2A		1	3.4					
24	3	CP-W8001	RIO-W8001-1	4	29	WAW321ZD	TK6 CC OUT OPN	2	2A		1	5.6					
24	3	CP-W8001	RIO-W8001-1	4	30	WAW322YS	TK6 CC IN C-H	2	2A		1	7.8					
24	3	CP-W8001	RIO-W8001-1	4	31	WAW322ZB	TK6 CC IN CLS	2	2A		2	1.2					
24	3	CP-W8001	RIO-W8001-1	5	0	WAW322ZD	TK6 CC IN OPN	2	2A		2	3.4					
24	3	CP-W8001	RIO-W8001-1	5	1	WAW341YS	TK8 CC OUT C-H	2	3A		1	1.2					
24	3	CP-W8001	RIO-W8001-1	5	2	WAW341ZB	TK8 CC OUT CLS	2	3A		1	3.4					
24	3	CP-W8001	RIO-W8001-1	5	3	WAW341ZD	TK8 CC OUT OPN	2	3A		1	5.6					
24	3	CP-W8001	RIO-W8001-1	5	4	WAW342YS	TK8 CC IN C-H	2	3A		1	7.8					
24	3	CP-W8001	RIO-W8001-1	5	5	WAW342ZB	TK8 CC IN CLS	2	3A		2	1.2					
24	3	CP-W8001	RIO-W8001-1	5	6	WAW342ZD	TK8 CC IN OPN	2	3A		2	3.4					
25	3	CP-W8001	RIO-W8001-1	5	7	WBW631QF	SUP FN FAIL	3	7D		4	3.4					
25	3	CP-W8001	RIO-W8001-1	5	8	WBW631MM	SUP FN RUN	3	7D		4	5.6					
25	3	CP-W8001	RIO-W8001-1	5	9	WBW641MM	EXH FN RUN	3	7D		4	7.8					
25	3	CP-W8001	RIO-W8001-1	5	10	WBW641QF	EXH FN FAIL	3	7D		3	1.2					
25	3	CP-W8001	RIO-W8001-1	5	11	WBW661MM	HW PP1 RUN	3	7D		3	3.4					
25	3	CP-W8001	RIO-W8001-1	5	12	WBW662MM	GLY PP1 RUN	3	7D		3	5.6					
25	3	CP-W8001	RIO-W8001-1	5	13	WBW663MM	WTR PP RUN	3	7D		3	7.8					
25	3	CP-W8001	RIO-W8001-1	5	14	WBW601AA	TR BAY ANLYZR	3	7D		1	1.2					
25	3	CP-W8001	RIO-W8001-1	5	15	WBW621QF	TR SUP FN F	3	7D		1	3.4					
25	3	CP-W8001	RIO-W8001-1	5	16	WBW621MM	TR SUP FN RUN	3	7D		1	5.6					
25	3	CP-W8001	RIO-W8001-1	5	17	WBW611QF	AHU 611 Truck Bay Supply Fan FAIL	3	7D		1	7.8					
25	3	CP-W8001	RIO-W8001-1	5	18	WBW611MM	AHU 611 Truck Bay Supply Fan RUN	3	7D		2	1.2					
25	3	CP-W8001	RIO-W8001-1	5	19	WBW521TA	TRANSF T1 TEMP	3	7D		2	5.6					
25	3	CP-W8001	RIO-W8001-1	5	20	WBW530LA	BLDG SUMP LVL	3	7D		2	7.8					
25	3	CP-W8001	RIO-W8001-1	5	21	WBW661FA	HW PP FLW ALM	3	7A		4	1.2					
25	3	CP-W8001	RIO-W8001-1	5	22	WBW662FA	GLY PP FL ALM	3	7A		4	3.4					
25	3	CP-W8001	RIO-W8001-1	5	23	WBW663FA	WTR PP FL ALM	3	7A		4	5.6					
25	3	CP-W8001	RIO-W8001-1	5	24	WBW651MM	EXH FN RUN	3	7A		4	7.8					
25	3	CP-W8001	RIO-W8001-1	5	25	WBW651QF	EXH FN FAIL	3	7A		3	1.2					
25	3	CP-W8001	RIO-W8001-1	5	26	WBW671MM	HW PP2 RUN	3	7A		3	3.4					
25	3	CP-W8001	RIO-W8001-1	5	27	WBW672MM	GLY PP2 RUN	3	7A		3	5.6					
25	3	CP-W8001	RIO-W8001-1	5	28	WBW612ZD	DMPR CLS	3	7A		3	7.8					
25	3	CP-W8001	RIO-W8001-1	5	29	WBW602AA	TR BAY ANLYZR	3	7A		1	1.2					
25	3	CP-W8001	RIO-W8001-1	5	30	WBW622QF	TR HI RT FN F	3	7A		1	3.4					
25	3	CP-W8001	RIO-W8001-1	5	31	WBW622MM	TR HI RT FN RUN	3	7A		1	5.6					
25	3	CP-W8003	RIO-W8001-5	1	0	WBW612YS	TR EXH FN C-H	3	7A		1	7.8					
25	3	CP-W8003	RIO-W8001-5	1	1	WBW612ML	TR EXH LO-SPD	3	7A		2	1.2					
25	3	CP-W8003	RIO-W8001-5	1	2	WBW612QF	AHU 612 Truck Bay EXH Fan FAIL	3	7A		2	3.4					
25	3	CP-W8003	RIO-W8001-5	1	3	WBW612MH	TR EXH HI SPD	3	7A		2	5.6					
25	3	CP-W8003	RIO-W8001-5	1	4	WBW522TA	TRANSF T2 TEMP	3	7A		2	7.8					
25	3	CP-W8003	RIO-W8001-5	1	5	WBW613TA	ELEC RM TEMP	3	8A		4	1.2					
25	3	CP-W8003	RIO-W8001-5	1	6	WBW614QA	DEWATER CTL RM DOOR OPEN ALARM	3	8A		4	3.4					
25	3	CP-W8003	RIO-W8001-5	1	7	WBW614XA	CONT FIRE ALARM DEWATER BUILDING	3	8A		4	5.6					
25	3	CP-W8003	RIO-W8001-5	1	8	WBW615TA	CTL RM HI TEMP	3	8A		4	7.8					
25	3	CP-W8003	RIO-W8001-5	1	9	WBW623QF	INSTRUMENT AIR DRYER FAIL	3	8A		3	5.6					
25	3	CP-W8003	RIO-W8001-5	1	10	WBW533YS	DSL SAMP COMP-HAND	3	8A		3	7.8					
25	3	CP-W8003	RIO-W8001-5	1	11	WBW533AM	DSL SAMP RUN	3	8A		1	1.2					
25	3	CP-W8003	RIO-W8001-5	1	12	WBW533AF	DSL SAMP NORMAL-FAIL	3	8A		1	3.4					
25	3	CP-W8003	RIO-W8001-5	1	13	WBW015YS	CK PP1 VLV C-H	3	9A		4	1.2					
25	3	CP-W8003	RIO-W8001-5	1	14	WBW015ZB	CK PP1 VLV CLS	3	9A		4	3.4					
25	3	CP-W8003	RIO-W8001-5	1	15	WBW015ZD	CK PP1 VLV OPN	3	9A		4	5.6					
25	3	CP-W8003	RIO-W8001-5	1	16	WBW016YS	THN SL VLV1 C-F	3	9A		4	7.8					
25	3	CP-W8003	RIO-W8001-5	1	17	WBW016ZB	THN SL VLV1 CLS	3	9A		3	1.2					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
25	3	CP-W8003	RIO-W8001-5	1	18	WBW016ZD	THN SL VLV1 OPN	3	9A		3.3A						
25	3	CP-W8003	RIO-W8001-5	1	19	WBW017MM	CK PP1 AGIT	3	9A		3.6A						
25	3	CP-W8003	RIO-W8001-5	1	20	WBW115MM	CK PP1 RUN	3	9A		3.7A						
25	3	CP-W8003	RIO-W8001-5	1	21	WBW115QF	CK PP1 COM	3	9A		1.2						
25	3	CP-W8003	RIO-W8001-5	1	22	WBW115YS	CK PP1 C-H	3	9A		1.3A						
25	3	CP-W8003	RIO-W8001-5	1	23	WBW410ZB	BIN 1W VLV CLOSED	3	9A		1.6A						
25	3	CP-W8003	RIO-W8001-5	1	24	WBW410ZD	BIN 1W VLV OPEN	3	9A		1.7A						
25	3	CP-W8003	RIO-W8001-5	1	25	WBW413ZD	BIN 1W GT OPN	3	9A		2.12						
25	3	CP-W8003	RIO-W8001-5	1	26	WBW412MM	BIN 1W AUG RUN	3	9A		2.3A						
25	3	CP-W8003	RIO-W8001-5	1	27	WBW613MM	ELEC RM FN RUN	3	9A		2.56						
25	3	CP-W8003	RIO-W8001-5	1	28	WBW613QF	ELEC RM FN FAIL	3	9A		2.7A						
25	3	CP-W8003	RIO-W8001-5	1	29	WBW025YS	CK PP2 VLV C-H	3	9B		4.12						
25	3	CP-W8003	RIO-W8001-5	1	30	WBW026ZB	CK PP2 VLV CLS	3	9B		4.3A						
25	3	CP-W8003	RIO-W8001-5	1	31	WBW026ZD	CK PP2 VLV OPN	3	9B		4.56						
25	3	CP-W8003	RIO-W8001-5	2	0	WBW026YS	THN SL VLV2 C-F	3	9B		4.7A						
25	3	CP-W8003	RIO-W8001-5	2	1	WBW026ZB	THN SL VLV2 CLS	3	9B		3.12						
25	3	CP-W8003	RIO-W8001-5	2	2	WBW026ZD	THN SL VLV2 OPN	3	9B		3.3A						
25	3	CP-W8003	RIO-W8001-5	2	3	WBW027MM	CK PP2 AGIT	3	9B		3.6A						
25	3	CP-W8003	RIO-W8001-5	2	4	WBW125MM	CK PP2 RUN	3	9B		3.7A						
25	3	CP-W8003	RIO-W8001-5	2	5	WBW125QF	CK PP2 COM	3	9B		1.12						
25	3	CP-W8003	RIO-W8001-5	2	6	WBW125YS	CK PP2 C-H	3	9B		1.3A						
25	3	CP-W8003	RIO-W8001-5	2	7	WBW420ZB	BIN 1E VLV CLOSED	3	9B		1.56						
25	3	CP-W8003	RIO-W8001-5	2	8	WBW420ZD	BIN 1E VLV OPEN	3	9B		1.7A						
25	3	CP-W8003	RIO-W8001-5	2	9	WBW422MM	BIN 1E AUG RUN	3	9B		2.12						
25	3	CP-W8003	RIO-W8001-5	2	10	WBW423ZD	BIN 1E GT OPN	3	9B		2.3A						
25	3	CP-W8003	RIO-W8001-5	2	11	WBW614MM	CTL RM FN1 RUN	3	9B		2.56						
25	3	CP-W8003	RIO-W8001-5	2	12	WBW614QF	CTL RM FN1 F	3	9B		2.7A						
25	3	CP-W8003	RIO-W8001-5	2	13	WBW035YS	CK PP3 VLV C-H	3	8B		4.12						
25	3	CP-W8003	RIO-W8001-5	2	14	WBW035ZB	CK PP3 VLV CLS	3	8B		4.3A						
25	3	CP-W8003	RIO-W8001-5	2	15	WBW035ZD	CK PP3 VLV OPN	3	8B		4.56						
25	3	CP-W8003	RIO-W8001-5	2	16	WBW036YS	THN SL VLV3 C-H	3	8B		4.7A						
25	3	CP-W8003	RIO-W8001-5	2	17	WBW036ZB	THN SL VLV3 CLS	3	8B		3.12						
25	3	CP-W8003	RIO-W8001-5	2	18	WBW036ZD	THN SL VLV3 OPN	3	8B		3.3A						
25	3	CP-W8003	RIO-W8001-5	2	19	WBW037MM	CK PP3 AGIT	3	8B		3.56						
25	3	CP-W8003	RIO-W8001-5	2	20	WBW135MM	CK PP3 RUN	3	8B		3.7A						
25	3	CP-W8003	RIO-W8001-5	2	21	WBW135QF	CK PP3 COM	3	8B		1.12						
25	3	CP-W8003	RIO-W8001-5	2	22	WBW135YS	CK PP3 C-H	3	8B		1.3A						
25	3	CP-W8003	RIO-W8001-5	2	23	WBW430ZB	BIN 2W VLV CLOSED	3	8B		1.56						
25	3	CP-W8003	RIO-W8001-5	2	24	WBW430ZD	BIN 2W VLV OPEN	3	8B		1.7A						
25	3	CP-W8003	RIO-W8001-5	2	25	WBW432MM	BIN 2W AUG RUN	3	8B		2.12						
25	3	CP-W8003	RIO-W8001-5	2	26	WBW433ZD	BIN 2W GT OPN	3	8B		2.3A						
25	3	CP-W8003	RIO-W8001-5	2	27	WBW615MM	CNT RM FN1 RUN	3	8B		2.56						
25	3	CP-W8003	RIO-W8001-5	2	28	WBW615QF	CNT RM FN1 F	3	8B		2.7A						
25	3	CP-W8003	RIO-W8001-5	2	29	WBW045YS	CK PP4 VLV C-H	3	7B		4.12						
25	3	CP-W8003	RIO-W8001-5	2	30	WBW045ZB	CK PP4 VLV CLS	3	7B		4.3A						
25	3	CP-W8003	RIO-W8001-5	2	31	WBW045ZD	CK PP4 VLV OPN	3	7B		4.56						
25	3	CP-W8003	RIO-W8001-5	3	0	WBW046YS	THN SL VLV4 C-F	3	7B		4.7A						
25	3	CP-W8003	RIO-W8001-5	3	1	WBW046ZB	THN SL VLV4 CLS	3	7B		3.12						
25	3	CP-W8003	RIO-W8001-5	3	2	WBW046ZD	THN SL VLV4 OPN	3	7B		3.3A						
25	3	CP-W8003	RIO-W8001-5	3	3	WBW047MM	CK PP4 AGIT	3	7B		3.56						
25	3	CP-W8003	RIO-W8001-5	3	4	WBW145MM	CK PP4 RUN	3	7B		3.7A						
25	3	CP-W8003	RIO-W8001-5	3	5	WBW145QF	CK PP4 COM	3	7B		1.12						
25	3	CP-W8003	RIO-W8001-5	3	6	WBW145YS	CK PP4 C-H	3	7B		1.3A						
25	3	CP-W8003	RIO-W8001-5	3	7	WBW440ZB	BIN 2E VLV CLOSED	3	7B		1.56						
25	3	CP-W8003	RIO-W8001-5	3	8	WBW440ZD	BIN 2E VLV OPEN	3	7B		1.7A						
25	3	CP-W8003	RIO-W8001-5	3	9	WBW442MM	BIN 2E AUG RUN	3	7B		2.12						
25	3	CP-W8003	RIO-W8001-5	3	10	WBW443ZD	BIN 2E GT OPN	3	7B		2.3A						
25	3	CP-W8003	RIO-W8001-5	3	11	WBW618QF	INST CMP1 RUN	3	7B		2.56						
25	3	CP-W8003	RIO-W8001-5	3	12	WBW618MF	INST CMP1 FAIL	3	7B		2.7A						
25	3	CP-W8003	RIO-W8001-5	3	13	WBW055YS	CK PP5 VLV C-H	2	2B		4.12						
25	3	CP-W8003	RIO-W8001-5	3	14	WBW055ZB	CK PP5 VLV CLS	2	2B		4.3A						
25	3	CP-W8003	RIO-W8001-5	3	15	WBW055ZD	CK PP5 VLV OPN	2	2B		4.56						
25	3	CP-W8003	RIO-W8001-5	3	16	WBW056YS	THN SL VLV5 C-F	2	2B		4.7A						
25	3	CP-W8003	RIO-W8001-5	3	17	WBW056ZB	THN SL VLV5 CLS	2	2B		3.12						
25	3	CP-W8003	RIO-W8001-5	3	18	WBW056ZD	THN SL VLV5 OPN	2	2B		3.3A						
25	3	CP-W8003	RIO-W8001-5	3	19	WBW057MM	CK PP5 AGIT	2	2B		3.56						
25	3	CP-W8003	RIO-W8001-5	3	20	WBW155MM	CK PP5 RUN	2	2B		3.7A						
25	3	CP-W8003	RIO-W8001-5	3	21	WBW155QF	CK PP5 COM	2	2B		1.12						
25	3	CP-W8003	RIO-W8001-5	3	22	WBW155YS	CK PP5 C-H	2	2B		1.3A						
25	3	CP-W8003	RIO-W8001-5	3	23	WBW450ZB	BIN 3W VLV CLOSED	2	2B		1.56						
25	3	CP-W8003	RIO-W8001-5	3	24	WBW450ZD	BIN 3W VLV OPEN	2	2B		1.7A						
25	3	CP-W8003	RIO-W8001-5	3	25	WBW453ZD	BIN 3W GT OPN	2	2B		2.12						
25	3	CP-W8003	RIO-W8001-5	3	26	WBW452MM	BIN 3W AUG RUN	2	2B		2.3A						
25	3	CP-W8003	RIO-W8001-5	3	27	WBW691QF	INST CMP2 RUN	2	2B		2.56						
25	3	CP-W8003	RIO-W8001-5	3	28	WBW691MF	INST CMP2 FAIL	2	2B		2.7A						
25	3	CP-W8003	RIO-W8001-5	3	29	WBW065YS	CK PP6 VLV C-H	2	3B		4.12						
25	3	CP-W8003	RIO-W8001-5	3	30	WBW065ZB	CK PP6 VLV CLS	2	3B		4.3A						
25	3	CP-W8003	RIO-W8001-5	3	31	WBW065ZD	CK PP6 VLV OPN	2	3B		4.56						
25	3	CP-W8003	RIO-W8001-5	4	0	WBW066YS	THN SL VLV6 C-F	2	3B		4.7A						
25	3	CP-W8003	RIO-W8001-5	4	1	WBW066ZB	THN SL VLV6 CLS	2	3B		3.12						
25	3	CP-W8003	RIO-W8001-5	4	2	WBW066ZD	THN SL VLV6 OPN	2	3B		3.3A						
25	3	CP-W8003	RIO-W8001-5	4	3	WBW067MM	CK PP6 AGIT	2	3B		3.56						
25	3	CP-W8003	RIO-W8001-5	4	4	WBW165MM	CK PP6 RUN	2	3B		3.7A						
25	3	CP-W8003	RIO-W8001-5	4	5	WBW165QF	CK PP6 COM	2	3B		1.12						
25	3	CP-W8003	RIO-W8001-5	4	6	WBW165YS	CK PP6 C-H	2	3B		1.3A						
25	3	CP-W8003	RIO-W8001-5	4	7	WBW460ZB	BIN 3E VLV CLOSED	2	3B		1.56						
25	3	CP-W8003	RIO-W8001-5	4	8	WBW460ZD	BIN 3E VLV OPEN	2	3B		1.7A						
25	3	CP-W8003	RIO-W8001-5	4	9	WBW462MM	BIN 3E AUG RUN	2	3B		2.12						
25	3	CP-W8003	RIO-W8001-5	4	10	WBW463ZD	BIN 3E GT OPN	2	3B		2.3A						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
25	3	CP-W8003	RIO-W8001-5	4	11	WBW691FA	INST AIR PRES LOW	2	3B			2.5,6					
25	3	CP-W8003	RIO-W8001-5	4	12	WBW112MM	CENT1 DELTA	2	4B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	4	13	WBW112MX	CENT1 WYE	2	4B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	4	14	WBW114MM	OIL CC 1 RUN	2	4B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	4	15	WBW801TA	CENT1 BRG ALM	2	4B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	4	16	WBW804TA	BKD1 BRG ALM	2	4B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	4	17	WBW805XA	CENT1 VIB ALM	2	4B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	4	18	WBW611TL	TK BAY TMP LO	2	4B			3,7,8					
25	3	CP-W8003	RIO-W8001-5	4	19	WBW613TL	ELEC RM TEP LO	2	4B			1,1,2					
25	3	CP-W8003	RIO-W8001-5	4	20	WBW631TL	CENT RM TEP LO	2	4B			1,3,4					
25	3	CP-W8003	RIO-W8001-5	4	21	WBW811QA	CENT1 COM ALM	2	4B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	4	22	WBW811MM	BKD1 MTR RN	2	4B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	4	23	WBW812QA	BKD1 TRQ ALM	2	4B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	4	24	WBW815YC	CENT1 C-R	2	4B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	4	25	WBW816XX	CENT1 CIP FWD	2	4B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	4	26	WBW817XX	CENT1 CIP REV	2	4B			2,7,8					
25	3	CP-W8003	RIO-W8001-5	4	27	WBW122MH	CENT2 DELTA	2	5B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	4	28	WBW122ML	CENT2 WYE	2	5B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	4	29	WBW124MM	OIL CC 2 RUN	2	5B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	4	30	WBW821TA	CENT2 BRG ALM	2	5B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	4	31	WBW824TA	BKD2 BRG ALM	2	5B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	5	0	WBW825XA	CENT2 VIB ALM	2	5B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	5	1	WBW831QA	CENT2 COM ALM	2	5B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	5	2	WBW821MM	BKD2 MTR RN	2	5B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	5	3	WBW822QA	BKD2 TRQ ALM	2	5B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	5	4	WBW835YC	CENT2 C-R	2	5B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	5	5	WBW836XX	CENT2 CIP FWD	2	5B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	5	6	WBW837XX	CENT2 CIP REV	2	5B			2,7,8					
25	3	CP-W8003	RIO-W8001-5	5	7	WBW132MH	CENT3 DELTA	2	6B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	5	8	WBW132ML	CENT3 WYE	2	6B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	5	9	WBW134MM	OIL CC 3 RUN	2	6B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	5	10	WBW841TA	CENT3 BRG ALM	2	6B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	5	11	WBW844TA	BKD3 BRG ALM	2	6B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	5	12	WBW845XA	CENT3 VIB ALM	2	6B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	5	13	WBW950YS	BLENDED CENTRATE SAMPLER C/I	2	6B			3,5,6					
25	3	CP-W8003	RIO-W8001-5	5	14	WBW950AM	BLENDED CENTRATE SAMPLER RUI	2	6B			1,1,2					
25	3	CP-W8003	RIO-W8001-5	5	15	WBW950AF	BLENDED CENTRATE SAMPLER STATU!	2	6B			1,3,4					
25	3	CP-W8003	RIO-W8001-5	5	16	WBW851QA	CENT3 COM ALM	2	6B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	5	17	WBW831MM	BKD3 MTR RN	2	6B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	5	18	WBW832QA	BKD3 TRQ ALM	2	6B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	5	19	WBW855YC	CENT3 C-R	2	6B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	5	20	WBW856XX	CENT3 CIP FWD	2	6B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	5	21	WBW857XX	CENT3 CIP REV	2	6B			2,7,8					
25	3	CP-W8003	RIO-W8001-5	5	22	WBW142MH	CENT4 DELTA	2	7B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	5	23	WBW142ML	CENT4 WYE	2	7B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	5	24	WBW144MM	OIL CC 4 RUN	2	7B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	5	25	WBW861TA	CENT4 BRG ALM	2	7B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	5	26	WBW864TA	BKD4 BRG ALM	2	7B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	5	27	WBW865XA	CENT4 VIB ALM	2	7B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	5	28	WBW871QA	CENT4 COM ALM	2	7B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	5	29	WBW871MM	BKD4 MTR RN	2	7B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	5	30	WBW872QA	BKD4 TRQ ALM	2	7B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	5	31	WBW875YC	CENT4 C-R	2	7B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	6	0	WBW876XX	CENT4 CIP FWD	2	7B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	6	1	WBW877XX	CENT4 CIP REV	2	7B			2,7,8					
25	3	CP-W8003	RIO-W8001-5	6	2	WBW152MH	CENT5 DELTA	2	8B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	6	3	WBW152ML	CENT5 WYE	2	8B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	6	4	WBW154MM	OIL CC 5 RUN	2	8B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	6	5	WBW881TA	CENT5 BRG ALM	2	8B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	6	6	WBW884TA	BKD5 BRG ALM	2	8B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	6	7	WBW885XA	CENT5 VIB ALM	2	8B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	6	8	WBW914YS	BLENDED CENTRATE FWATER VLV C/I	2	8B			3,5,6					
25	3	CP-W8003	RIO-W8001-5	6	9	WBW914ZD		2	8B			3,7,8					
25	3	CP-W8003	RIO-W8001-5	6	10	WBW914ZB		2	8B			1,1,2					
25	3	CP-W8003	RIO-W8001-5	6	11	WBW891QA	CENT5 COM ALM	2	8B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	6	12	WBW891MM	BKD5 MTR RN	2	8B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	6	13	WBW892QA	BKD5 TRQ ALM	2	8B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	6	14	WBW895YC	CENT5 C-R	2	8B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	6	15	WBW896XX	CENT5 CIP FWD	2	8B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	6	16	WBW897XX	CENT5 CIP REV	2	8B			2,7,8					
25	3	CP-W8003	RIO-W8001-5	6	17	WBW162MH	CENT6 DELTA	2	9B			4,1,2					
25	3	CP-W8003	RIO-W8001-5	6	18	WBW162ML	CENT6 WYE	2	9B			4,3,4					
25	3	CP-W8003	RIO-W8001-5	6	19	WBW164MM	OIL CC 6 RUN	2	9B			4,5,6					
25	3	CP-W8003	RIO-W8001-5	6	20	WBW901TA	CENT6 BRG ALM	2	9B			4,7,8					
25	3	CP-W8003	RIO-W8001-5	6	21	WBW904TA	BKD6 BRG ALM	2	9B			3,1,2					
25	3	CP-W8003	RIO-W8001-5	6	22	WBW905XA	CENT6 VIB ALM	2	9B			3,3,4					
25	3	CP-W8003	RIO-W8001-5	6	23	WBW904YS	CENTRATE TRANS VALVE C/I	2	9B			3,5,6					
25	3	CP-W8003	RIO-W8001-5	6	24	WBW904ZB		2	9B			3,7,8					
25	3	CP-W8003	RIO-W8001-5	6	25	WBW904ZB		2	9B			1,1,2					
25	3	CP-W8003	RIO-W8001-5	6	26	WBW904AL	CENTRATE TRANS VALVE FAULT ALARM	2	9B			1,3,4					
25	3	CP-W8003	RIO-W8001-5	6	27	WBW911QA	CENT6 COM ALM	2	9B			1,5,6					
25	3	CP-W8003	RIO-W8001-5	6	28	WBW911MM	BKD6 MTR RN	2	9B			1,7,8					
25	3	CP-W8003	RIO-W8001-5	6	29	WBW912QA	BKD6 TRQ ALM	2	9B			2,1,2					
25	3	CP-W8003	RIO-W8001-5	6	30	WBW915YC	CENT6 C-R	2	9B			2,3,4					
25	3	CP-W8003	RIO-W8001-5	6	31	WBW916XX	CENT6 CIP FWD	2	9B			2,5,6					
25	3	CP-W8003	RIO-W8001-5	7	0	WBW917XX	CENT6 CIP REV	2	9B			2,7,8					
26	3	CP-W8003	RIO-W8001-5	7	1	WCW696HS4	RAILCAR BUILDINGEMERGENCY STOF	2	D-1		1,1A,1A	100mA					
26	3	CP-W8003	RIO-W8001-5	7	2	WCW695YS	AIR PURGE VALVE COMP-HANC	2	D-1		4,4A,4A	100mA					
26	3	CP-W8003	RIO-W8001-5	7	3	WCW695PH	UNLOADING PRESS HIGH ALARM	2	D-1		5,5A,5A	100mA					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing		
26	3	CP-W8003	RIO-W8001-5	7	4	WCW710LF	TANK 1 SENSOR 0 LOSS OF ECHC	2	D-1	6	6A,6A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	5	WCW720LF	TANK 2 SENSOR 0 LOSS OF ECHC	2	D-1	7	7A,7A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	6	WCW696HS2	STORAGE AREA EMERGENCY STOP	2	D-1	8	1B,1B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	7	WCW697HS2	UCK UNLOAD EMERGENCY STOF	2	D-1	11	4B,4B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	8	WCW731LH	SUM PIT LEVEL HIGH	2	D-1	14	7B,7B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	9	WCW740PH	W740 DOSING LINEPRESSURE HIGH	2	D-2	11	4B,4B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	10	WCW702FS1	EYEWASH IN USE UNLOADING RA	2	D-2	13	6B,6B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	11	WCW702FS2	EYEWASH IN USE STORAGE RM	2	D-2	14	7B,7B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	12	WCW750PH	W750 DOSING LINEPRESSURE HIGH	2	D-3	4	4A,4A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	13	WCW792GH	CO LEVEL HIGH UNLOADING AREA	2	D-3	6	6A,6A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	14	WCW798GH	CO LEVEL HIGH STORAGE AREA	2	D-3	7	7A,7A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	15	WCW760PH	W760 DOSING LINEPRESSURE HIGH	2	D-3	11	4B,4B	100mA							
26	3	CP-W8003	RIO-W8001-5	7	16	WCW700TA	STORAGE AREA FIRE ALARM	2	D-4	1	1A,1A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	17	WCW700UA	STORAGE AREA FIRE ALARM PANEL	2	D-4	2	2A,2A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	18	WCW705YS	TANK 1 INLET VLVCOMP-HANE	2	D-5	3	3A,3A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	19	WCW706YS	TANK 2 INLET VLVCOMP-HANE	2	D-5	4	4A,4A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	20	WCW715YS	TANK 1 OUTLET VLVCOMP-HANE	2	D-5	5	5A,5A	100mA							
26	3	CP-W8003	RIO-W8001-5	7	21	WCW725YS	TANK 2 OUTLET VLVCOMP-HANE	2	D-5	6	6A,6A	100mA							
24	3	CP-W8003	RIO-W8001-5	7	22	WAW350MN	XFR PP1 STR	2	9C			1.56							
24	3	CP-W8003	RIO-W8001-5	7	23	WAW350MO	XFR PP1 STP	2	9C			1.78							
24	3	CP-W8003	RIO-W8001-5	7	24	WAW010VB	SL FD VLV1 CLS	2	8C			1.12							
24	3	CP-W8003	RIO-W8001-5	7	25	WAW010VD	SL FD VLV1 OPN	2	8C			1.34							
24	3	CP-W8003	RIO-W8001-5	7	26	WAW110MN	SL FD PP1 STR	2	8C			2.12							
24	3	CP-W8003	RIO-W8001-5	7	27	WAW110MP	SL FD PP1 STP	2	8C			2.34							
24	3	CP-W8003	RIO-W8001-5	7	28	WAW111MN	POL FD PP1 STR	2	8C			2.56							
24	3	CP-W8003	RIO-W8001-5	7	29	WAW111MO	POL FD PP1 STP	2	8C			2.78							
24	3	CP-W8003	RIO-W8001-5	7	30	WAW320VB	TK6 FD VLV CLS	2	7C			1.12							
24	3	CP-W8003	RIO-W8001-5	7	31	WAW320VD	TK6 FD VLV OPN	2	7C			1.34							
24	3	CP-W8003	RIO-W8001-5	8	0	WAW360MN	XFR PP2 STR	2	7C			1.56							
24	3	CP-W8003	RIO-W8001-5	8	1	WAW360MO	XFR PP2 STP	2	7C			1.78							
24	3	CP-W8003	RIO-W8001-5	8	2	WAW318VB	RECC VLV2 CLS	2	7C			2.12							
24	3	CP-W8003	RIO-W8001-5	8	3	WAW318VD	RECC VLV2 OPN	2	7C			2.34							
24	3	CP-W8003	RIO-W8001-5	8	4	WAW368MN	CC PP2 STR	2	7C			2.56							
24	3	CP-W8003	RIO-W8001-5	8	5	WAW368MO	CC PP2 STP	2	7C			2.78							
24	3	CP-W8003	RIO-W8001-5	8	6	WAW020VB	SL FD VLV2 CLS	2	6C			1.12							
24	3	CP-W8003	RIO-W8001-5	8	7	WAW020VD	SL FD VLV2 OPN	2	6C			1.34							
24	3	CP-W8003	RIO-W8001-5	8	8	WAW120MN	SL FD PP2 STR	2	6C			2.12							
24	3	CP-W8003	RIO-W8001-5	8	9	WAW120MO	SL FD PP2 STP	2	6C			2.34							
24	3	CP-W8003	RIO-W8001-5	8	10	WAW121MN	POL FD PP2 STR	2	6C			2.56							
24	3	CP-W8003	RIO-W8001-5	8	11	WAW121MO	POL FD PP2 STP	2	6C			2.78							
24	3	CP-W8003	RIO-W8001-5	8	12		SPARE	2	2B			2.12							
24	3	CP-W8003	RIO-W8001-5	8	13		SPARE	2	2B			2.34							
24	3	CP-W8003	RIO-W8001-5	8	14		SPARE	2	3B			2.12							
24	3	CP-W8003	RIO-W8001-5	8	15		SPARE	2	3B			2.34							
24	3	CP-W8003	RIO-W8001-5	8	16		SPARE	2	2D			2.34							
24	3	CP-W8003	RIO-W8001-5	8	17		SPARE	2	2D			2.56							
24	3	CP-W8003	RIO-W8001-5	8	18		SPARE	2	2D			2.78							
24	3	CP-W8003	RIO-W8001-5	8	19		SPARE	2	3D			2.12							
24	3	CP-W8003	RIO-W8001-5	8	20		SPARE	2	7B			4.12							
24	3	CP-W8003	RIO-W8001-5	8	21		SPARE	2	7B			4.34							
24	3	CP-W8003	RIO-W8001-5	8	22		SPARE	2	7B			4.56							
24	3	CP-W8003	RIO-W8001-5	8	23		SPARE	2	7B			3.78							
24	3	CP-W8003	RIO-W8001-5	8	24		SPARE	2	7B			1.34							
24	3	CP-W8003	RIO-W8001-5	8	25		SPARE	2	6B			3.78							
24	3	CP-W8003	RIO-W8001-5	8	26		SPARE	2	6B			1.34							
24	3	CP-W8003	RIO-W8001-5	8	27		SPARE	2	5B			4.12							
24	3	CP-W8003	RIO-W8001-5	8	28		SPARE	2	5B			4.34							
24	3	CP-W8003	RIO-W8001-5	8	29		SPARE	2	5B			4.56							
24	3	CP-W8003	RIO-W8001-5	8	30		SPARE	2	5B			4.78							
24	3	CP-W8003	RIO-W8001-5	8	31		SPARE	2	5B			3.12							
24	3	CP-W8003	RIO-W8001-5	9	0		SPARE	2	5B			3.34							
24	3	CP-W8003	RIO-W8001-5	9	1		SPARE	2	5B			3.78							
24	3	CP-W8003	RIO-W8001-5	9	2		SPARE	2	5B			1.12							
24	3	CP-W8003	RIO-W8001-5	9	3		SPARE	2	5B			1.34							
24	3	CP-W8003	RIO-W8001-5	9	4		SPARE	2	5B			1.56							
24	3	CP-W8003	RIO-W8001-5	9	5		SPARE	2	5B			2.12							
24	3	CP-W8003	RIO-W8001-5	9	6		SPARE	2	5B			2.34							
24	3	CP-W8003	RIO-W8001-5	9	7		SPARE	2	5B			2.56							
24	3	CP-W8003	RIO-W8001-5	9	8		SPARE	2	5B			2.78							
24	3	CP-W8003	RIO-W8001-5	9	9		SPARE	2	4B			3.78							
24	3	CP-W8003	RIO-W8001-5	9	10		SPARE	2	4B			1.12							
24	3	CP-W8003	RIO-W8001-5	9	11		SPARE	2	4B			1.34							
24	3	CP-W8003	RIO-W8001-5	9	12		SPARE	2	4B			1.56							
24	3	CP-W8003	RIO-W8001-5	9	13		SPARE	2	4B			2.12							
24	3	CP-W8003	RIO-W8001-5	9	14		SPARE	2	4B			2.34							
24	3	CP-W8003	RIO-W8001-5	9	15		SPARE	2	4B			2.56							
24	3	CP-W8003	RIO-W8001-5	9	16		SPARE	2	4B			2.78							
24	3	CP-W8003	RIO-W8001-5	9	17		SPARE	2	2A			4.12							
24	3	CP-W8003	RIO-W8001-5	9	18		SPARE	2	2A			4.34							
24	3	CP-W8003	RIO-W8001-5	9	19		SPARE	2	2A			4.56							
24	3	CP-W8003	RIO-W8001-5	9	20		SPARE	2	2A			4.78							
24	3	CP-W8003	RIO-W8001-5	9	21		SPARE	2	2A			3.12							
24	3	CP-W8003	RIO-W8001-5	9	22		SPARE	2	2A			3.34							
24	3	CP-W8003	RIO-W8001-5	9	23		SPARE	2	2A			3.56							
24	3	CP-W8003	RIO-W8001-5	9	24		SPARE	2	2A			3.78							
24	3	CP-W8003	RIO-W8001-5	9	25		SPARE	2	2A			2.56							
24	3	CP-W8003	RIO-W8001-5	9	26		SPARE	2	2A			2.78							
24	3	CP-W8003	RIO-W8001-5	9	27		SPARE	2	3A			4.12							
24	3	CP-W8003	RIO-W8001-5	9	28		SPARE	2	3A			4.34							

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3	CP-W8003	RIO-W8001-5	9	29		SPARE	2	3A		4 5,6						
24	3	CP-W8003	RIO-W8001-5	9	30		SPARE	2	3A		4 7,8						
24	3	CP-W8003	RIO-W8001-5	9	31		SPARE	2	3A		3 1,2						
24	3	CP-W8003	RIO-W8001-5	10	0		SPARE	2	3A		3 3,4						
24	3	CP-W8003	RIO-W8001-5	10	1		SPARE	2	3A		3 5,6						
24	3	CP-W8003	RIO-W8001-5	10	2		SPARE	2	3A		3 7,8						
24	3	CP-W8003	RIO-W8001-5	10	3		SPARE	2	3A		2 5,6						
24	3	CP-W8003	RIO-W8001-5	10	4		SPARE	2	3A		2 7,8						
25	3	CP-W8003	RIO-W8001-5	10	5		SPARE	3	7D		4 1,2						
25	3	CP-W8003	RIO-W8001-5	10	6		SPARE	3	7D		2 3,4						
25	3	CP-W8003	RIO-W8001-5	10	7		SPARE	3	8A		3 1,2						
25	3	CP-W8003	RIO-W8001-5	10	8		SPARE	3	8A		3 3,4						
25	3	CP-W8003	RIO-W8001-5	10	9		SPARE	3	8A		1 5,6						
25	3	CP-W8003	RIO-W8001-5	10	10		SPARE	3	8A		1 7,8						
25	3	CP-W8003	RIO-W8001-5	10	11		SPARE	3	8A		2 1,2						
25	3	CP-W8003	RIO-W8001-5	10	12		SPARE	3	8A		2 3,4						
25	3	CP-W8003	RIO-W8001-5	10	13		SPARE	3	8A		2 5,6						
25	3	CP-W8003	RIO-W8001-5	10	14		SPARE	3	8A		2 7,8						
25	3	CP-W8003	RIO-W8001-5	10	15		SPARE	2	3B		2 7,8						
25	3	CP-W8003	RIO-W8001-5	10	16		SPARE	2	4B		3 5,6						
25	3	CP-W8003	RIO-W8001-5	10	17		SPARE	2	5B		3 5,6						
25	3	CP-W8003	RIO-W8001-5	10	18		SPARE	2	5B		3 7,8						
25	3	CP-W8003	RIO-W8001-5	10	19		SPARE	2	5B		1 1,2						
25	3	CP-W8003	RIO-W8001-5	10	20		SPARE	2	5B		1 3,4						
25	3	CP-W8003	RIO-W8001-5	10	21		SPARE	2	6B		3 7,8						
25	3	CP-W8003	RIO-W8001-5	10	22		SPARE	2	7B		3 5,6						
25	3	CP-W8003	RIO-W8001-5	10	23		SPARE	2	7B		3 7,8						
25	3	CP-W8003	RIO-W8001-5	10	24		SPARE	2	7B		1 1,2						
25	3	CP-W8003	RIO-W8001-5	10	25		SPARE	2	7B		1 3,4						
25	3	CP-W8003	RIO-W8001-5	10	26		SPARE	2	9B		1 3,4		100mA				
26	3	CP-W8003	RIO-W8001-5	10	27		SPARE	2	D-1		2 2A,2A		100mA				
26	3	CP-W8003	RIO-W8001-5	10	28		SPARE	2	D-1		3 3A,3A		100mA				
26	3	CP-W8003	RIO-W8001-5	10	29		SPARE	2	D-1				100mA				
26	3	CP-W8003	RIO-W8001-5	10	30		SPARE	2	D-1		9 2B,2B		100mA				
26	3	CP-W8003	RIO-W8001-5	10	31		SPARE	2	D-1		10 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-1		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-1		13 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-1				100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		1 1A,1A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		2 2A,2A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		3 3A,3A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		4 4A,4A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		5 5A,5A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		6 6A,6A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		7 7A,7A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2				100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		8 1B,1B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		9 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		10 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		13 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2		14 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-2				100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		1 1A,1A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		2 2A,2A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		3 3A,3A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		5 5A,5A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3				100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		8 1B,1B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		9 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		10 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		13 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3		14 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-3				100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		3 3A,3A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		4 4A,4A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		5 5A,5A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		6 6A,6A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		7 7A,7A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4				100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		8 1B,1B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		9 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		10 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		11 4B,4B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		13 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4		14 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-4				100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		1 1A,1A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		2 2A,2A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		7 7A,7A		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5				100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		8 1B,1B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		9 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		10 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		11 4B,4B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		12 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		13 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5		14 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED	2	D-5				100mA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3						SPARE - NOT MIGRATED	2 9C			1 1.2						
24	3						SPARE - NOT MIGRATED	2 9C			1 3.4						
24	3						SPARE - NOT MIGRATED	2 9C			2 1.2						
24	3						SPARE - NOT MIGRATED	2 9C			2 3.4						
24	3						SPARE - NOT MIGRATED	2 9C			2 5.6						
24	3						SPARE - NOT MIGRATED	2 9C			2 7.8						
24	3						SPARE - NOT MIGRATED	2 8C			1 5.6						
24	3						SPARE - NOT MIGRATED	2 8C			1 7.8						
24	3						SPARE - NOT MIGRATED	2 6C			1 5.6						
24	3						SPARE - NOT MIGRATED	2 6C			1 7.8						
24	3						SPARE - NOT MIGRATED	2 5C			1 1.2						
24	3						SPARE - NOT MIGRATED	2 5C			1 3.4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3	CP-W8001	RIO-W8001-1	6	0	WAW250VD	FD TK1 VLV OPN	2	5C		1.7.8						
24	3	CP-W8001	RIO-W8001-1	6	1	WAW030VB	SL FD VLV3 CLS	2	4C		1.1.2						
24	3	CP-W8001	RIO-W8001-1	6	2	WAW030VD	SL FD VLV3 OPN	2	4C		1.3.4						
24	3	CP-W8001	RIO-W8001-1	6	3	WAW537VD	OPEN BLOWDN VLV2	2	4C		1.5.6						
24	3	CP-W8001	RIO-W8001-1	6	4	WAW537VB	CLOSE BLOWDN VLV3	2	4C		1.7.8						
24	3	CP-W8001	RIO-W8001-1	6	5	WAW130MN	SL FD PP3 STR	2	4C		2.1.2						
24	3	CP-W8001	RIO-W8001-1	6	6	WAW130MO	SL FD PP3 STP	2	4C		2.3.4						
24	3	CP-W8001	RIO-W8001-1	6	7	WAW130MN	POL FD PP3 STR	2	4C		2.5.6						
24	3	CP-W8001	RIO-W8001-1	6	8	WAW130MO	POL FD PP3 STP	2	4C		2.7.8						
24	3	CP-W8001	RIO-W8001-1	6	9	WAW340VB	TK8 FD VLV CLS	2	3C		1.1.2						
24	3	CP-W8001	RIO-W8001-1	6	10	WAW340VD	TK8 FD VLV OPN	2	3C		1.3.4						
24	3	CP-W8001	RIO-W8001-1	6	11	WAW260VD	FD TK2 VLV OPN	2	3C		1.7.8						
24	3	CP-W8001	RIO-W8001-1	6	12	WAW216LX	LIQ TK LVL HORN	2	3C		2.1.2						
24	3	CP-W8001	RIO-W8001-1	6	13	WAW216LA	LIQ TK LVL LITE	2	3C		2.3.4						
24	3	CP-W8001	RIO-W8001-1	6	14	WAW040VB	SL FD VLV4 CLS	2	2C		1.1.2						
24	3	CP-W8001	RIO-W8001-1	6	15	WAW040VD	SL FD VLV4 OPN	2	2C		1.3.4						
24	3	CP-W8001	RIO-W8001-1	7	0	WAW140MN	SL FD PP4 STR	2	2C		2.1.2						
24	3	CP-W8001	RIO-W8001-1	7	1	WAW140MO	SL FD PP4 STP	2	2C		2.3.4						
24	3	CP-W8001	RIO-W8001-1	7	2	WAW141MN	POL FD PP4 STR	2	2C		2.5.6						
24	3	CP-W8001	RIO-W8001-1	7	3	WAW141MO	POL FD PP4 STP	2	2C		2.7.8						
24	3	CP-W8001	RIO-W8001-1	7	4	WAW050VB	SL FD VLV5 CLS	2	8D		1.1.2						
24	3	CP-W8001	RIO-W8001-1	7	5	WAW050VD	SL FD VLV5 OPN	2	8D		1.3.4						
24	3	CP-W8001	RIO-W8001-1	7	6	WAW150MN	SL FD PP5 STR	2	8D		2.1.2						
24	3	CP-W8001	RIO-W8001-1	7	7	WAW150MO	SL FD PP5 STP	2	8D		2.3.4						
24	3	CP-W8001	RIO-W8001-1	7	8	WAW151MN	POL FD PP5 STR	2	8D		2.5.6						
24	3	CP-W8001	RIO-W8001-1	7	9	WAW151MO	POL FD PP5 STP	2	8D		2.7.8						
24	3	CP-W8001	RIO-W8001-1	7	10	WAW321VB	TK6 CC OUT CLS	2	7D		1.1.2						
24	3	CP-W8001	RIO-W8001-1	7	11	WAW321VD	TK6 CC OUT OPN	2	7D		1.3.4						
24	3	CP-W8001	RIO-W8001-1	7	12	WAW322VB	TK6 CC IN CLS	2	7D		1.5.6						
24	3	CP-W8001	RIO-W8001-1	7	13	WAW322VD	TK6 CC IN OPN	2	7D		1.7.8						
24	3	CP-W8001	RIO-W8001-1	7	14	WAW060VB	SL FD VLV6 CLS	2	6D		1.1.2						
24	3	CP-W8001	RIO-W8001-1	7	15	WAW060VD	SL FD VLV6 OPN	2	6D		1.3.4						
24	3	CP-W8001	RIO-W8001-1	8	0	WAW160MN	SL FD PP6 STR	2	6D		2.1.2						
24	3	CP-W8001	RIO-W8001-1	8	1	WAW160MO	SL FD PP6 STP	2	6D		2.3.4						
24	3	CP-W8001	RIO-W8001-1	8	2	WAW161MN	POL FD PP6 STR	2	6D		2.5.6						
24	3	CP-W8001	RIO-W8001-1	8	3	WAW161MO	POL FD PP6 STP	2	6D		2.7.8						
24	3	CP-W8001	RIO-W8001-1	8	4	ZO4210MN	DRY FDR1 STR	2	4D		2.1.2						
24	3	CP-W8001	RIO-W8001-1	8	5	WAW212MN	DRY BWR1 STR	2	4D		2.3.4						
24	3	CP-W8001	RIO-W8001-1	8	6	WAW211MN	LIQ PP1 STR	2	4D		2.5.6						
24	3	CP-W8001	RIO-W8001-1	8	7	WAW230MN	MIX TK1 MXR STR	2	4D		2.7.8						
24	3	CP-W8001	RIO-W8001-1	8	8	WAW232VD	MIX TK1 VLV OPN	2	5D		1.1.2						
24	3	CP-W8001	RIO-W8001-1	8	9	WAW233VD	JETWET VLV TK1	2	5D		1.3.4						
24	3	CP-W8001	RIO-W8001-1	8	10	WAW234VD	TAPFD VLV TK1	2	5D		1.5.6						
24	3	CP-W8001	RIO-W8001-1	8	11	WAW213MN	LIQ TK1 MXR STR	2	5D		1.7.8						
24	3	CP-W8001	RIO-W8001-1	8	12	WAW341VB	TK8 CC OUT CLS	2	10C		1.1.2						
24	3	CP-W8001	RIO-W8001-1	8	13	WAW341VD	TK8 CC OUT OPN	2	10C		1.3.4						
24	3	CP-W8001	RIO-W8001-1	8	14	WAW342VB	TK8 CC IN CLS	2	10C		1.5.6						
24	3	CP-W8001	RIO-W8001-1	8	15	WAW342VD	TK8 CC IN OPN	2	10C		1.7.8						
24	3	CP-W8001	RIO-W8001-1	9	0	WAW341MN	DRY FDR2 STR	2	10C		2.1.2						
24	3	CP-W8001	RIO-W8001-1	9	1	WAW222MN	DRY BWR2 STR	2	10C		2.3.4						
24	3	CP-W8001	RIO-W8001-1	9	2	WAW221MN	LIQ PP2 STR	2	10C		2.5.6						
24	3	CP-W8001	RIO-W8001-1	9	3	WAW240MN	MIX TK2 MXR STR	2	10C		2.7.8						
24	3	CP-W8001	RIO-W8001-1	9	4	WAW242VD	MIX TK2 VLV OPN	2	10D		1.1.2						
24	3	CP-W8001	RIO-W8001-1	9	5	WAW242VD	JETWET VLV TK2	2	10D		1.3.4						
24	3	CP-W8001	RIO-W8001-1	9	6	WAW243VD	RAFD VLV TK2	2	10D		1.5.6						
24	3	CP-W8001	RIO-W8001-1	9	7	WAW244MN	LIQ TK2 MXR STR	2	10D		1.7.8						
25	3	CP-W8001	RIO-W8001-1	9	8	WBW112MN	CENT 1 START	2	9D		1.1.2						
25	3	CP-W8001	RIO-W8001-1	9	9	WBW112MO	CENT 1 STOP	2	9D		1.3.4						
25	3	CP-W8001	RIO-W8001-1	9	10	WBW114MN	OIL CLR 1 START	2	9D		1.5.6						
25	3	CP-W8001	RIO-W8001-1	9	11	WBW114MO	OIL CLR 1 STOP	2	9D		1.7.8						
25	3	CP-W8001	RIO-W8001-1	9	12	811WBE02	RESET GEN ALM	2	9D		2.1.2						
25	3	CP-W8001	RIO-W8001-1	9	13	811WBE03	CENT1 ALM RST	2	9D		2.5.6						
25	3	CP-W8001	RIO-W8001-1	9	14	950WBE02	RESET GEN ALM1	2	9D		2.7.8						
25	3	CP-W8001	RIO-W8001-1	9	15	WBW813SD	BKDRV1 INC SPD	2	8D		1.1.2						
25	3	CP-W8001	RIO-W8001-1	10	0	WBW813SB	BKDRV 1 DEC SPD	2	8D		1.3.4						
25	3	CP-W8001	RIO-W8001-1	10	1	WBW015VB	CLOSE CK PP1 VLV	2	8D		1.7.8						
25	3	CP-W8001	RIO-W8001-1	10	2	WBW015VD	OPEN CK PP1 VLV	2	8D		2.1.2						
25	3	CP-W8001	RIO-W8001-1	10	3	WBW016VB	CLOSE THN SL VLV1	2	8D		2.3.4						
25	3	CP-W8001	RIO-W8001-1	10	4	WBW016VD	OPEN THN SL VLV1	2	8D		2.5.6						
25	3	CP-W8001	RIO-W8001-1	10	5	WBW122MN	CENT 2 START	2	9C		1.1.2						
25	3	CP-W8001	RIO-W8001-1	10	6	WBW122MO	CENT 2 STOP	2	9C		1.3.4						
25	3	CP-W8001	RIO-W8001-1	10	7	WBW124MN	OIL CLR 2 START	2	9C		1.5.6						
25	3	CP-W8001	RIO-W8001-1	10	8	WBW124MO	OIL CLR 2 STOP	2	9C		1.7.8						
25	3	CP-W8001	RIO-W8001-1	10	9	831WBE02	RESET GEN ALM	2	9C		2.1.2						
25	3	CP-W8001	RIO-W8001-1	10	10	833WBE03	CENT2 ALM RST	2	9C		2.5.6						
25	3	CP-W8001	RIO-W8001-1	10	11	WBW833SD	BKDRV2 INC SPD	2	8C		1.1.2						
25	3	CP-W8001	RIO-W8001-1	10	12	WBW833SB	BKDRV 2 DEC SPD	2	8C		1.3.4						
25	3	CP-W8001	RIO-W8001-1	10	13	WBW025VB	CLOSE CK PP2 VLV	2	8C		1.7.8						
25	3	CP-W8001	RIO-W8001-1	10	14	WBW025VD	OPEN CK PP2 VLV	2	8C		2.1.2						
25	3	CP-W8001	RIO-W8001-1	10	15	WBW026VB	CLOSE THN SL VLV2	2	8C		2.3.4						
25	3	CP-W8001	RIO-W8001-1	10	0	WBW026VD	OPEN THN SL VLV2	2	8C		2.5.6						
25	3	CP-W8001	RIO-W8001-1	11	0	047WBE01	CAKE AGITATOR 4 CTRL	2	3C		1.1.2						
25	3	CP-W8001	RIO-W8001-1	11	2	057WBE01	CAKE AGITATOR 5 CTRL	2	3C		1.5.6						
25	3	CP-W8001	RIO-W8001-1	11	3	907WBE01	CAKE AGITATOR 6 CTRL	2	3C		2.1.2						
25	3	CP-W8001	RIO-W8001-1	11	4	WBW145MO	START CK PP4	2	3C		2.5.6						
25	3	CP-W8001	RIO-W8001-1	11	5	WBW145MN	STOP CK PP4	2	3C		2.7.8						
25	3	CP-W8001	RIO-W8001-1	11	6	WBW132MN	CENT 3 START	2	7D		1.1.2						
25	3	CP-W8001	RIO-W8001-1	11	7	WBW132MO	CENT 3 STOP	2	7D		1.3.4						
25	3	CP-W8001	RIO-W8001-1	11	8	WBW134MN	OIL CLR 3 START	2	7D		1.5.6						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Digital Outputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
24	3						SPARE - NOT MIGRATED		2 7D		2 1,2						
24	3						SPARE - NOT MIGRATED		2 7D		2 3,4						
24	3						SPARE - NOT MIGRATED		2 7D		2 5,6						
24	3						SPARE - NOT MIGRATED		2 7D		2 7,8						
24	3						SPARE - NOT MIGRATED		2 6D		1 5,6						
24	3						SPARE - NOT MIGRATED		2 6D		1 7,8						
24	3						SPARE - NOT MIGRATED		2 4D		1 1,2						
24	3						SPARE - NOT MIGRATED		2 4D		1 3,4						
24	3						SPARE - NOT MIGRATED		2 4D		1 5,6						
24	3						SPARE - NOT MIGRATED		2 4D		1 7,8						
24	3						SPARE - NOT MIGRATED		2 5D		2 1,2						
24	3						SPARE - NOT MIGRATED		2 5D		2 3,4						
24	3						SPARE - NOT MIGRATED		2 5D		2 5,6						
24	3						SPARE - NOT MIGRATED		2 5D		2 7,8						
24	3						SPARE - NOT MIGRATED		2 10D		2 1,2						
24	3						SPARE - NOT MIGRATED		2 10D		2 3,4						
24	3						SPARE - NOT MIGRATED		2 10D		2 5,6						
24	3						SPARE - NOT MIGRATED		2 10D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 9D		2 3,4						
25	3						SPARE - NOT MIGRATED		2 8D		1 5,6						
25	3						SPARE - NOT MIGRATED		2 8D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 9C		2 3,4						
25	3						SPARE - NOT MIGRATED		2 9C		2 7,8						
25	3						SPARE - NOT MIGRATED		2 8C		1 5,6						
25	3						SPARE - NOT MIGRATED		2 8C		2 7,8						
25	3						SPARE - NOT MIGRATED		2 3C		1 3,4						
25	3						SPARE - NOT MIGRATED		2 3C		1 7,8						
25	3						SPARE - NOT MIGRATED		2 3C		2 3,4						
25	3						SPARE - NOT MIGRATED		2 7D		2 3,4						
25	3						SPARE - NOT MIGRATED		2 7D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 6D		1 5,6						
25	3						SPARE - NOT MIGRATED		2 6D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 7C		2 3,4						
25	3						SPARE - NOT MIGRATED		2 7C		2 7,8						
25	3						SPARE - NOT MIGRATED		2 6C		2 3,4						
25	3						SPARE - NOT MIGRATED		2 6C		2 7,8						
25	3						SPARE - NOT MIGRATED		2 3D		1 3,4						
25	3						SPARE - NOT MIGRATED		2 3D		1 7,8						
25	3						SPARE - NOT MIGRATED		2 3D		2 3,4						
25	3						SPARE - NOT MIGRATED		2 5D		2 3,4						
25	3						SPARE - NOT MIGRATED		2 5D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 4D		1 5,6						
25	3						SPARE - NOT MIGRATED		2 4D		2 7,8						
25	3						SPARE - NOT MIGRATED		2 2D		2 1,2						
25	3						SPARE - NOT MIGRATED		2 2D		2 5,6						
25	3						SPARE - NOT MIGRATED		2 5C		2 3,4						
25	3						SPARE - NOT MIGRATED		2 5C		2 7,8						
25	3						SPARE - NOT MIGRATED		2 4C		1 7,8						
25	3						SPARE - NOT MIGRATED		2 4C		2 5,6						
26	3						SPARE - NOT MIGRATED		2 C-2		1 1A,1A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		2 2A,2A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		3 3A,3A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		4 4A,4A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		5 5A,5A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		6 6A,6A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		7 7A,7A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		8 8A,8A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		9 9B,9B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		10 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		11 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		12 4B,4B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		13 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		14 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		15 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-2		16 8B,8B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		1 1A,1A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		3 3A,3A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		5 5A,5A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		7 7A,7A		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		10 2B,2B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		11 3B,3B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		12 4B,4B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		13 5B,5B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		14 6B,6B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		15 7B,7B		100mA				
26	3						SPARE - NOT MIGRATED		2 C-1		16 8B,8B		100mA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
24	3	CP-W8002	RIO-W8001-4	1	0	WAW101TT	DIGESTED SLUDGE TEMP	2	7A	1	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	1	WAW101DT	DEWATERING DENSITY METER	2	7A	1	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	2	WAW101PT	DIGESTED SLUDGE PRESSURE	2	7A	1	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	3	WAW216LT	LIQ TK 1 LVL	2	7A	1	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	4	WAW216LT	POLYMER FEED TANK 1 LEVEL	2	7A	2	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	5	WAW012FT	SLUDGE FEED PP1 FLOW	2	7A	2	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	6	WAW013FT	POL PP1 FLOW	2	7A	2	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	1	7	WAW023FT	POL PP2 FLOW	2	7A	3	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	0	WAW110ST	SL FD PP1 SPD	2	7A	3	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	1	WAW111ST	POL PP1 SPD	2	7A	3	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	2	WAW120ST	SL FD PP2 SPD	2	7A	3	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	3	WAW121ST	POL PP2 SPD	2	7A	4	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	4	WAW105ZT	CENTRATE BYPASS VLV POSITION	2	7A	4	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	5	WAW226LT	LIQ TK 2 LVL	2	8A	1	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	6	WAW262LT	POLYMER FEED TANK 2 LEVEL	2	8A	1	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	2	7	WAW032FT	SLUDGE FEED PP3 FLOW	2	8A	1	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	0	WAW033FT	POL PP3 FLOW	2	8A	1	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	1	WAW042FT	SLUDGE FEED PP4 FLOW	2	8A	2	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	2	WAW043FT	POL PP4 FLOW	2	8A	2	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	3	WAW130ST	SL FD PP3 SPD	2	8A	2	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	4	WAW131ST	POL PP3 SPD	2	8A	2	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	5	WAW140ST	SL FD PP4 SPD	2	8A	3	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	6	WAW141ST	POL PP4 SPD	2	8A	3	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	3	7	LIQ PP1 FLOW	WAW215FT	2	8A	3	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	0	WAW022FT	SLUDGE FEED PP2 FLOW	2	8A	4	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	1	WAW052FT	SLUDGE FEED PP5 FLOW	2	9A	1	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	2	WAW053FT	POL PP5 FLOW	2	9A	1	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	3	WAW062FT	SLUDGE FEED PP6 FLOW	2	9A	1	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	4	WAW063FT	POL PP6 FLOW	2	9A	1	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	5	WAW150ST	SL FD PP5 SPD	2	9A	2	1.2	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	6	WAW151ST	POL PP5 SPD	2	9A	2	3.4	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	4	6	WAW160ST	SL FD PP6 SPD	2	9A	2	5.6	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	5	0	WAW161ST	POL PP6 SPD	2	9A	2	7.8	24 VDC	4-20MA				
24	3	CP-W8002	RIO-W8001-4	5	1	WAW225FT	LIQ PP2 FLOW	2	9A	3	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	2	WBW113ST	BKD1 SPEED	2	4A	1	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	3	WBW113OI	BKD1 TORQUE	2	4A	1	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	4	WBW153ST	BKD5 SPEED	2	4A	1	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	5	WBW153OI	BKD5 TORQUE	2	4A	1	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	6	WBW802IT	CENT1 CURF	2	4A	2	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	5	7	WBW806ST	CENT1 SPEED	2	4A	2	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	0	WBW882IT	CENT5 CURF	2	4A	2	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	1	WBW886ST	CENT5 SPEED	2	4A	2	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	2	WBW018LT	CK PP1 HOP LVL	2	4A	3	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	3	WBW058LT	CK PP5 HOP LVL	2	4A	3	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	4	WBW116ST	CK PP1 SPD	2	4A	3	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	5	WBW156ST	CK PP5 SPD	2	4A	3	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	6	WBW411LT	BIN ONE WEST LEVEL	2	4A	4	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	6	7	WBW451LT	BIN THREE WEST LEVEL	2	4A	4	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	0	WBW123ST	BKD2 SPEED	2	5A	1	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	1	WBW123OI	BKD2 TORQUE	2	5A	1	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	2	WBW163ST	BKD6 SPEED	2	5A	1	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	3	WBW163OI	BKD6 TORQUE	2	5A	1	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	4	WBW822IT	CENT2 CURF	2	5A	2	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	5	WBW826ST	CENT2 SPEED	2	5A	2	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	6	WBW902I	CENT6 CURF	2	5A	2	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	7	7	WBW906ST	CENT6 SPEED	2	5A	2	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	0	WBW028LT	CK PP2 HOP LVL	2	5A	3	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	1	WBW068LT	CAKE PP6 HOPPER LEVEL	2	5A	3	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	2	WBW126ST	CK PP2 SPD	2	5A	3	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	3	WBW166ST	CK PP6 SPD	2	5A	3	7.8	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	4	WBW421LT	BIN ONE EAST LEVEL	2	5A	4	1.2	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	5	WBW461LT	BIN THREE EAST LEVEL	2	5A	4	3.4	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	6	WBW481WT	CAKE BIN ONE WEIGHT	2	5A	4	5.6	24 VDC	4-20MA				
25	3	CP-W8002	RIO-W8001-4	8	7	WBW133ST	BKD3 SPEED	2	6A	1	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	0	WBW133OI	BKD3 TORQUE	2	6A	1	3.4	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	1	WBW842IT	CENT3 CURF	2	6A	1	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	2	WBW846ST	CENT3 SPEED	2	6A	1	7.8	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	3	WBW136ST	CK PP3 SPD	2	6A	2	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	4	WBW431LT	BIN TWO WEST LEVEL	2	6A	2	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	5	WBW482WT	CAKE BIN TWO WEIGHT	2	6A	2	7.8	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	6	WBW511ET	MCC 1W VOLT	2	6A	3	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	1	7	WBW611TT	TRUCK BAY TEMPERATURE	2	6A	3	3.4	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	0	WBW913TT	ELEC RM TEMP	2	6A	3	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	1	WBW631TT	CENTRIFUGE ROOM TEMPERATURE	2	6A	3	7.8	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	2	WBW038LT	CAKE PP3 HOPPER LEVEL	2	6A	4	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	3	WBW904TBI	TURBITY INDICATOR DEWATERING	2	6A	4	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	4	WBW143ST	BKD4 SPEED	2	7A	1	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	5	WBW143OI	BKD4 TORQUE	2	7A	1	3.4	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	6	WBW862IT	CENT4 CURF	2	7A	1	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	2	7	WBW866ST	CENT4 SPEED	2	7A	1	7.8	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	0	WBW048LT	CAKE PP4 HOPPER LEVEL	2	7A	2	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	1	WBW146ST	CK PP4 SPD	2	7A	2	3.4	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	2	WBW441LT	BIN TWO EAST LEVEL	2	7A	2	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	3	WBW483WT	CAKE BIN THREE WEIGHT	2	7A	2	7.8	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	4	WBW512ET	MCC 2W VOLT	2	7A	3	1.2	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	5	WBW350FT	TREATED CENTRATE FLOW	2	7A	3	3.4	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6	3	6	WBW350PT	TREATED CENTRATE PRESSURE	2	7A	3	5.6	24 VDC	4-20MA				
25	3	CP-W8003	RIO-W8001-6</														

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
25	3	CP-W8003	RIO-W8001-6	4	1	WBW905TT	BLENDED CENTRATE TEMPERATURI	2	7A		4 3,4						
26	3	CP-W8003	RIO-W8001-6	4	2	WCW710LT0		2	A-1		1 1,1	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	4	3	WCW720LT0		2	A-2		2 2,2	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	4	4	WCW701FT		2	A-3		3 3,3	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	4	5	WCW740FT		2	A-4		4 4,4	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	4	6	WCW750FT		2	A-5		5 5,5	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	4	7	WCW760FT		2	A-6		6 6,6	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	0	WCW695PIT		2	A-7		7 7,7	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	1	WCW790TT		2	A-8		8 8,8	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	2	WCW740ST		2	A-9		9 9,9	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	3	WCW750ST		2	A-10		10 10,10	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	4	WCW760ST		2	A-11		11 11,11	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	5	WCW710LT1	TANK 1 SENSOR 1 LVL	2	A-2		1 1,1	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	6	WCW720LT1	TANK 2 SENSOR 1 LVL	2	A-2		2 2,2	24VDC	2-40MA				
26	3	CP-W8003	RIO-W8001-6	5	7	WCW795TT		2	A-2		3 3,3	24VDC	2-40MA				
25	3	CP-W8003	RIO-W8001-6	6	0		SPARE	2	7A		4 5,6						
24	3	CP-W8003	RIO-W8001-6	6	1		SPARE	2	7A		2 7,8	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	2		SPARE	2	7A		4 5,6	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	3		SPARE	2	8A		3 5,6	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	4		SPARE	2	8A		4 1,2	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	5		SPARE	2	8A		4 3,4	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	6		SPARE	2	9A		3 3,4	24 VDC	4-20MA				
24	3	CP-W8003	RIO-W8001-6	6	7		SPARE	2	9A		3 5,6	24 VDC	4-20MA				
24	3						SPARE - NOT MIGRATED	2	9A		3 7,8	24 VDC	4-20MA				
24	3						SPARE - NOT MIGRATED	2	9A		4 1,2	24 VDC	4-20MA				
24	3						SPARE - NOT MIGRATED	2	9A		4 3,4	24 VDC	4-20MA				
24	3						SPARE - NOT MIGRATED	2	9A		4 5,6	24 VDC	4-20MA				
25	3						SPARE - NOT MIGRATED	2	4A		4 5,6	24 VDC	4-20MA				
25	3						SPARE - NOT MIGRATED	2	6A		2 1,2	24 VDC	4-20MA				
25	3						SPARE - NOT MIGRATED	2	6A		4 3,4						
26	3						SPARE - NOT MIGRATED	2	A-12		12 12,12	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-13		13 13,13	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-14		14 14,14	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-15		15 15,15	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		4 4,4	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		5 5,5	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		6 6,6	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		7 7,7	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		8 8,8	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		9 9,9	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		10 10,10	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		11 11,11	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		12 12,12	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		13 13,13	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		14 14,14	24VDC	2-40MA				
26	3						SPARE - NOT MIGRATED	2	A-2		15 15,15	24VDC	2-40MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DEWATERING PHOSPHORUS

Analog Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
24	3	CP-W8001	RIO-W8001-2	1	0	WAW140SC	SL FD PP4 SPD		2 5A		4 1.2		4-20MA				
24	3	CP-W8001	RIO-W8001-2	1	1	WAW150SC	SL FD PP5 SPD		2 5A		4 5.6		4-20MA				
24	3	CP-W8001	RIO-W8001-2	1	2	WAW151SC	POL PP5 SPD		2 5A		4 7.8		4-20MA				
24	3	CP-W8001	RIO-W8001-2	1	3	WAW160SC	SL FD PP6 SPD		2 5A		3 1.2		4-20MA				
24	3	CP-W8001	RIO-W8001-2	2	0	WAW161SC	POL PP6 SPD		2 5A		3 3.4		4-20MA				
24	3	CP-W8001	RIO-W8001-2	2	1	WAW141SC	POL PP4 SPD		2 5A		3 5.6		4-20MA				
24	3	CP-W8001	RIO-W8001-2	2	2	WAW110SC	SL FD PP1 SPD		2 6A		4 1.2		4-20MA				
24	3	CP-W8001	RIO-W8001-2	2	3	WAW111SC	POL PP1 SPD		2 6A		4 3.4		4-20MA				
24	3	CP-W8001	RIO-W8001-2	3	0	WAW120SC	SL FD PP2 SPD		2 6A		4 5.6		4-20MA				
24	3	CP-W8001	RIO-W8001-2	3	1	WAW121SC	POL PP2 SPD		2 6A		4 7.8		4-20MA				
24	3	CP-W8001	RIO-W8001-2	3	2	WAW130SC	SL FD PP3 SPD		2 6A		3 1.2		4-20MA				
24	3	CP-W8001	RIO-W8001-2	3	3	WAW131SC	POL PP3 SPD		2 6A		3 3.4		4-20MA				
24	3	CP-W8001	RIO-W8001-2	4	0	105WAW01	CENTRATE BYPASS VAVLE CTRL		2 6A		1 1.2		4-20MA				
25	3	CP-W8001	RIO-W8001-2	4	1	611WBE01	TB FN TEMP CTL		2 3A		4 1.2		4-20MA				
25	3	CP-W8001	RIO-W8001-2	4	2	631WBE01	FN TEMP CTL		3 3A		4 3.4		4-20MA				
25	3	CP-W8001	RIO-W8001-2	4	3	914WBASP	W914 FCV SETPOINT CONTROLLER		4 3A		4 5.6		4-20MA				
25	3	CP-W8001	RIO-W8001-2	5	0	904WBA01	CENTRATE TRANS VALVE CONTROL		5 3A		4 7.8		4-20MA				
26	3	CP-W8001	RIO-W8001-2	5	1	WCW740SC	DOSING PUMP 740 DOSING CONTROL		2 B-1		1 1.1		2-40MA				
26	3	CP-W8001	RIO-W8001-2	5	2	WCW750SC	DOSING PUMP 750 DOSING CONTROL		2 B-1		2 2.2		2-40MA				
26	3	CP-W8001	RIO-W8001-2	5	3	WCW760SC	DOSING PUMP 760 DOSING CONTROL		2 B-1		3 3.3		2-40MA				
24	3	CP-W8001	RIO-W8001-2	6	0		SPARE		2 5A		4 3.4		4-20MA				
24	3	CP-W8001	RIO-W8001-2	6	1		SPARE		2 5A		1 1.2		4-20MA				
24	3	CP-W8001	RIO-W8001-2	6	2		SPARE		2 5A		1 3.4		4-20MA				
24	3	CP-W8001	RIO-W8001-2	6	3		SPARE		2 5A		1 5.6		4-20MA				
24	3						SPARE - NOT MIGRATED		2 5A		1 7.8		4-20MA				
24	3						SPARE - NOT MIGRATED		2 5A		2 1.2		4-20MA				
24	3						SPARE - NOT MIGRATED		2 5A		2 3.4		4-20MA				
24	3						SPARE - NOT MIGRATED		2 5A		2 5.6		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		3 5.6		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		1 3.4		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		1 5.6		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		1 7.8		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		2 1.2		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		2 3.4		4-20MA				
24	3						SPARE - NOT MIGRATED		2 6A		2 5.6		4-20MA				
25	3						SPARE - NOT MIGRATED		6 3A		3 1.2		4-20MA				
25	3						SPARE - NOT MIGRATED		7 3A		3 3.4		4-20MA				
25	3						SPARE - NOT MIGRATED		8 3A		3 5.6		4-20MA				
25	3						SPARE - NOT MIGRATED		9 3A		1 1.2		4-20MA				
25	3						SPARE - NOT MIGRATED		10 3A		1 3.4		4-20MA				
25	3						SPARE - NOT MIGRATED		11 3A		1 5.6		4-20MA				
25	3						SPARE - NOT MIGRATED		12 3A		1 7.8		4-20MA				
25	3						SPARE - NOT MIGRATED		13 3A		2 1.2		4-20MA				
25	3						SPARE - NOT MIGRATED		14 3A		2 3.4		4-20MA				
25	3						SPARE - NOT MIGRATED		15 3A		2 5.6		4-20MA				
26	3						SPARE - NOT MIGRATED		2 B-1		4 4.4		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		5 5.5		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		6 6.6		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		7 7.7		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		8 8.8		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		9 9.9		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		10 10.10		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		11 11.11		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		12 12.12		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		13 13.13		2-40MA				
26	3						SPARE - NOT MIGRATED		2 B-1		14 14.14		2-40MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	3	CP-D8001	RIO-D8001-1	1	0	DBD105YS	DIG13 SLUDGE FEED C-H	2	2C		3	1.2					
20	3	CP-D8001	RIO-D8001-1	1	1	DBD105ZB	DIG13 SLUDGE FEED CLS	2	2C		3	3.4					
20	3	CP-D8001	RIO-D8001-1	1	2	DBD105ZD	DIG13 SLUDGE FEED OPN	2	2C		3	5.6					
20	3	CP-D8001	RIO-D8001-1	1	3	DBD106YS	DIG14 SLUDGE FEED C-H	2	2C		3	7.8					
20	3	CP-D8001	RIO-D8001-1	1	4	DBD106ZB	DIG14 SLUDGE FEED CLS	2	2C		1	1.2					
20	3	CP-D8001	RIO-D8001-1	1	5	DBD106ZD	DIG14 SLUDGE FEED OPN	2	2C		1	3.4					
20	3	CP-D8001	RIO-D8001-1	1	6	DBD115MM	DIG DP12 SL RECC PP	2	2C		1	5.6					
20	3	CP-D8001	RIO-D8001-1	1	7	DBD115YK	SL TEMP VLV C-H	2	2C		1	7.8					
20	3	CP-D8001	RIO-D8001-1	1	8	DBD115YS	DIG DP12 SL RECC PP	2	2C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	1	9	DBD116MM	DP13 SL RECC PP RN	2	2C		2	3.4					
20	3	CP-D8001	RIO-D8001-1	1	10	DBD116YK	SL TEMP VLV C-H	2	2C		2	5.6					
20	3	CP-D8001	RIO-D8001-1	1	11	DBD116YS	DP13 SL RECC PP C-H	2	2C		2	7.8					
20	3	CP-D8001	RIO-D8001-1	1	12	DBD195LH	DIG13 LEVEL HIGH	2	3C		4	1.2					
20	3	CP-D8001	RIO-D8001-1	1	13	DBD196LH	DIG14 LEVEL HIGH	2	3C		4	3.4					
20	3	CP-D8001	RIO-D8001-1	1	14	DBD202YS	DIG DRY BED VLV C-H	2	3C		4	5.6					
20	3	CP-D8001	RIO-D8001-1	1	15	DBD202ZB	DIG DRY BED VLV CLS	2	3C		4	7.8					
20	3	CP-D8001	RIO-D8001-1	1	16	DBD202ZD	DIG DRY BED VLV OPN	2	3C		3	1.2					
20	3	CP-D8001	RIO-D8001-1	1	17	DBD240ZD	DIG WST G REL OPN	2	4C		1	3.4					
20	3	CP-D8001	RIO-D8001-1	1	18	DBD241BF	TK5-8 FLM FAIL	2	4C		1	5.6					
20	3	CP-D8001	RIO-D8001-1	1	19	DBD241BM	TK5-8 BNR RN	2	4C		1	7.8					
20	3	CP-D8001	RIO-D8001-1	1	20	DBD242PH	TK5-8 PRES HI	2	4C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	1	21	DBD271YS	HOLD TANK6 VALVE C+	2	5C		4	7.8					
20	3	CP-D8001	RIO-D8001-1	1	22	DBD271ZB	HOLD TANK6 VALVE CLS	2	5C		3	1.2					
20	3	CP-D8001	RIO-D8001-1	1	23	DBD271ZD	HOLD TANK6 VALVE OPN	2	5C		3	3.4					
20	3	CP-D8001	RIO-D8001-1	1	24	DBD281YS	HOLD TANK8 VALVE C+	2	5C		3	5.6					
20	3	CP-D8001	RIO-D8001-1	1	25	DBD281ZB	HOLD TANK8 VALVE CLS	2	5C		3	7.8					
20	3	CP-D8001	RIO-D8001-1	1	26	DBD281ZD	HOLD TANK8 VALVE OPN	2	5C		1	1.2					
20	3	CP-D8001	RIO-D8001-1	1	27	DBD301MM	DIG DP4 SLUDGE PUMP	2	5C		1	3.4					
20	3	CP-D8001	RIO-D8001-1	1	28	DBD301YS	DP4 SL XFR PP C-H	2	5C		1	5.6					
20	3	CP-D8001	RIO-D8001-1	1	29	DBD302FL	CHK VLV LO FL	2	5C		1	7.8					
20	3	CP-D8001	RIO-D8001-1	1	30	DBD305MM	DP5 SL XFR PP RN	2	5C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	1	31	DBD305YS	DP5 SL XFR PP C-H	2	5C		2	3.4					
20	3	CP-D8001	RIO-D8001-1	2	0	DBD306FL	CHK VLV LO FL	2	5C		2	5.6					
20	3	CP-D8001	RIO-D8001-1	2	1	DBD400MM	DR10 GAL7 G BSTR RN	2	6C		1	7.8					
20	3	CP-D8001	RIO-D8001-1	2	2	DBD400YS	DR10 GAL7 G BSTR C-O	2	6C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	2	3	DBD401PL	DR10 G SUCT PRES LO	2	6C		2	3.4					
20	3	CP-D8001	RIO-D8001-1	2	4	DBD402PH	DR10 G DISCH PRES HI	2	6C		2	5.6					
20	3	CP-D8001	RIO-D8001-1	2	5	DBD403TH	DR10 G DISCH TEMP HI	2	6C		2	7.8					
20	3	CP-D8001	RIO-D8001-1	2	6	DBD405ZD	DR10 SUCTION VALVE	2	7C		4	1.2					
20	3	CP-D8001	RIO-D8001-1	2	7	DBD406TH	DR10 JACKET TEMP HI	2	7C		4	3.4					
20	3	CP-D8001	RIO-D8001-1	2	8	DBD407LL	DR10 OIL LEVEL LOW	2	7C		4	5.6					
20	3	CP-D8001	RIO-D8001-1	2	9	DBD408PL	DR10 WTR JKCT LO FL	2	7C		4	7.8					
20	3	CP-D8001	RIO-D8001-1	2	10	DBD408ZL	BELT TENSN LO	2	7C		3	1.2					
20	3	CP-D8001	RIO-D8001-1	2	11	DBD450MM	DR5 GAL7 COMPRESSOR	2	7C		3	3.4					
20	3	CP-D8001	RIO-D8001-1	2	12	DBD450YS	DR5 GAL7 G CMP C-H	2	7C		3	5.6					
20	3	CP-D8001	RIO-D8001-1	2	13	DBD451PL	DR5 G SUCT PRES LO	2	7C		3	7.8					
20	3	CP-D8001	RIO-D8001-1	2	14	DBD452PH	DR5 G DSCH PRES HI	2	7C		1	1.2					
20	3	CP-D8001	RIO-D8001-1	2	15	DBD453TH	DR5 G DSCH TEMP HI	2	7C		1	3.4					
20	3	CP-D8001	RIO-D8001-1	2	16	DBD455ZD	DR5 SUCT VLV OPEN	2	7C		1	5.6					
20	3	CP-D8001	RIO-D8001-1	2	17	DBD456TH	DR5 JCKT TEMP HI	2	7C		1	7.8					
20	3	CP-D8001	RIO-D8001-1	2	18	DBD457LL	DR5 OIL PRESS LOW	2	7C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	2	19	DBD458FL	COOLING WATER FLOW NORMAL	2	7C		2	3.4					
20	3	CP-D8001	RIO-D8001-1	2	20	DBD459FL	OIL FLOW NORMAL	2	7C		2	5.6					
20	3	CP-D8001	RIO-D8001-1	2	21	DBD460MM	DR6 GAL7 COMPRESSOR	2	7C		2	7.8					
20	3	CP-D8001	RIO-D8001-1	2	22	DBD460YS	DR6 GAL7 G CMP C-H	2	8C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	2	23	DBD461PL	DR6 G SUCT PRES LO	2	8C		4	3.4					
20	3	CP-D8001	RIO-D8001-1	2	24	DBD462PH	DR6 G DISH PRES HI	2	8C		4	5.6					
20	3	CP-D8001	RIO-D8001-1	2	25	DBD463TH	DR6 G DSCH TEMP HI	2	8C		4	7.8					
20	3	CP-D8001	RIO-D8001-1	2	26	DBD465ZD	DR6 SUCT VLV OPEN	2	8C		3	1.2					
20	3	CP-D8001	RIO-D8001-1	2	27	DBD466TH	DR6 JACKET TEMP HI	2	8C		3	3.4					
20	3	CP-D8001	RIO-D8001-1	2	28	DBD467LL	DR6 G SUCT PRES LO	2	8C		3	5.6					
20	3	CP-D8001	RIO-D8001-1	2	29	DBD468FL	DR6 COOLING WATER FLOW	2	8C		3	7.8					
20	3	CP-D8001	RIO-D8001-1	2	30	DBD469FL	DR6 OIL FLOW	2	8C		1	1.2					
20	3	CP-D8001	RIO-D8001-1	2	31	DBD600MM	DIGESTER FAN 41 RUN STATUS	2	8C		1	3.4					
20	3	CP-D8001	RIO-D8001-1	3	0	DBD600TLL	DIGESTER FAN 41 FREEZE STA1	2	8C		1	5.6					
20	3	CP-D8001	RIO-D8001-1	3	1	DBD606MM	DF34 ELEC RM FAN RUN STATUS	2	8C		2	1.2					
20	3	CP-D8001	RIO-D8001-1	3	2	DBD606MM	DIGESTER FAN 32 RUN STATUS	2	1B		4	1.2					
20	3	CP-D8001	RIO-D8001-1	3	3	DBD606TLL	DIGESTER FAN 32 FREEZE STA1	2	1B		4	3.4					
20	3	CP-D8001	RIO-D8001-1	3	4	DBD610MM	DIGESTER FAN 33 RUN STATUS	2	1B		4	7.8					
20	3	CP-D8001	RIO-D8001-1	3	5	DBD610TLL	DIGESTER FAN 33 FREEZE STA1	2	1B		3	1.2					
20	3	CP-D8001	RIO-D8001-1	3	6	DBD612MM	DIGESTER FAN 37 RUN	2	1B		3	5.6					
20	3	CP-D8001	RIO-D8001-1	3	7	DBD612TLL	DIGESTER FAN 37 FREEZE STA1	2	1B		3	7.8					
20	3	CP-D8001	RIO-D8001-1	3	8	DBD614MM	DIGESTER FAN 36 RUN	2	1B		1	3.4					
20	3	CP-D8001	RIO-D8001-1	3	9	DBD614TL	DIGESTER FAN 36 LOW TEMP ALARM	2	1B		1	5.6					
20	3	CP-D8001	RIO-D8001-1	3	10	DBD616MM	DIGESTER CONTROL ROOM FAN 35	2	1B		2	1.2					
20	3	CP-D8001	RIO-D8001-1	3	11	DBD616QA	DIGESTER FAN 35 FILTER ALARM	2	1B		2	3.4					
20	3	CP-D8001	RIO-D8001-1	3	12	DBD616PL	DIGESTER FAN 35 CTRL RM LOW PRES	2	1B		2	5.6					
20	3	CP-D8001	RIO-D8001-1	3	13	DBD617MM	DIGESTER FAN 35 A/C UNIT A RUN	2	1B		2	7.8					
20	3	CP-D8001	RIO-D8001-1	3	14	DBD626MM	DIGESTER FAN 2 RUN STATUS	2	2B		4	7.8					
20	3	CP-D8001	RIO-D8001-1	3	15	DBD399HSA	DIGESTER WEST ROOM REM E-STOP	2	2B		3	1.2					
20	3	CP-D8001	RIO-D8001-1	3	16	DBD827TL	GAL 1 TEMP LO	2	2B		2	3.4					
20	3	CP-D8001	RIO-D8001-1	3	17	DBD861TH	ELEC RM TEMP HI	2	2B		3	7.8					
20	3	CP-D8001	RIO-D8001-1	3	18	DBD939QF	EAST GAS ROOM GAS Trouble	2	2B		1	5.6					
20	3	CP-D8001	RIO-D8001-1	3	19	DBD902PL	DIG INST AIR LO	2	2B		1	7.8					
20	3	CP-D8001	RIO-D8001-1	3	20	DBD925XA	DIGESTER CTL RM DOOR OPEN ALARM	2	2B		2	1.2					
20	3	CP-D8001	RIO-D8001-1	3	21	DBD926XA	DIGESTR ELEC RM DOOR OPEN ALARM	2	2B		2	3.4					
20	3	CP-D8001	RIO-D8001-1	3	22	DBD935GA	BOILER BUILDING GAS ALARM	2	2B		2	5.6					
20	3	CP-D8001	RIO-D8001-1	3	23	DBD936GA	DIG GAL4 GAS ALM	2	2B		2	7.8					
20	3	CP-D8001	RIO-D8001-1	3	24	DBD937GA	DIG GAL3 GAS ALM	2	3B		4	1.2					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	3	CP-D8001	RIO-D8001-1	3	25	DBD938GA	HOLDING TANKS FLARE GAS ALARM	2	3B	4	3.4						
20	3	CP-D8001	RIO-D8001-1	3	26	DBD939GA	EAST GAS ROOM GAS ALARM	2	3B	4	5.6						
20	3	CP-D8001	RIO-D8001-1	3	27	DBD940GA	WEST GAS ROOM GAS ALARM	2	3B	4	7.8						
20	3	CP-D8001	RIO-D8001-1	3	28	DBD941GA	DIG G SPHERE G ALM	2	3B	3	1.2						
20	3	CP-D8001	RIO-D8001-1	3	29	DBD942GA	DIG BNR BLDG G ALM	2	3B	3	3.4						
20	3	CP-D8001	RIO-D8001-1	3	30	DBD943GA	DIG BNR BLDG G ALM	2	3B	3	5.6						
20	3	CP-D8001	RIO-D8001-1	3	31	DBD944GA	H2S Alarm - Small Rm below the Electrical Rrr	2	3B	3	7.8						
20	3	CP-D8001	RIO-D8001-1	4	0	DBD945LH	DIG GAL5 SUMP LEVEL	2	3B	1	1.2						
20	3	CP-D8001	RIO-D8001-1	4	1	DBD946LH	DIG GAL2 SUMP LEVEL	2	3B	1	3.4						
20	3	CP-D8001	RIO-D8001-1	4	2	DBD947LH	DIG GAL4 SUMP LEVEL	2	3B	1	5.6						
20	3	CP-D8001	RIO-D8001-1	4	3	DBD948LH	DIG GAL6 SUMP LEVEL	2	3B	1	7.8						
20	3	CP-D8001	RIO-D8001-1	4	4	DBD949LH	DIG GAL7 SUMP LEVEL	2	3B	2	1.2						
20	3	CP-D8001	RIO-D8001-1	4	5	DBD952XA	DIG FIRE ALM	2	3B	2	3.4						
20	3	CP-D8001	RIO-D8001-1	4	6	DAB600MM	BOILER FAN 20 RUN STATUS	2	9C	4	1.2						
20	3	CP-D8001	RIO-D8001-1	4	7	DAB600TL	BOILER FAN 20 FREEZE STAT	2	9C	4	3.4						
20	3	CP-D8001	RIO-D8001-1	4	8	DAB616MM	BOILER FAN 23 CONTROL ROOM	2	9C	4	5.6						
20	3	CP-D8001	RIO-D8001-1	4	9	DAB616QF	BOILER FAN 23 DIRTY FILTER	2	9C	4	7.8						
20	3	CP-D8001	RIO-D8001-1	4	10	DAB616PL	BOILER FAN 23 LOW PRESSURE	2	9C	3	1.2						
20	3	CP-D8001	RIO-D8001-1	4	11	DAB614MM	BOILER CTRL RM A/C UNIT B RUN	2	9C	3	5.6						
20	3	CP-D8001	RIO-D8001-1	4	12	DBD632MM	DIGESTER FAN 1 RUN STATUS	2	9C	3	7.8						
20	3	CP-D8001	RIO-D8001-1	4	13	DAB632TL	DIGESTER FAN 1 FREEZE STAT	2	9C	1	1.2						
20	3	CP-D8001	RIO-D8001-1	4	14	DBD626MM	DIGESTER FAN 2 RUN STATUS	2	9C	1	3.4						
20	3	CP-D8001	RIO-D8001-1	4	15	DAB626TL	DIGESTER FAN 2 FREEZE STAT	2	9C	1	5.6						
20	3	CP-D8001	RIO-D8001-1	4	16	DBD638MM	DIGESTER FAN 3 RUN	2	9C	1	7.8						
20	3	CP-D8001	RIO-D8001-1	4	17	DAB638TL	DIGESTER FAN 3 FREEZE STAT	2	9C	2	1.2						
20	3	CP-D8001	RIO-D8001-1	4	18	DBD607MM	DF5 ELEC RM FN RN	2	9C	2	3.4						
20	3	CP-D8001	RIO-D8001-1	4	19	DBD509MM	DIGESTER FAN 9 RUN STATUS	2	9C	2	5.6						
20	3	CP-D8001	RIO-D8001-1	4	20	DBD510MM	DIGESTER FAN 10 RUN STATUS	2	9C	2	7.8						
20	3	CP-D8001	RIO-D8001-1	4	21	DBD512MM	DIGESTER FAN 12 RUN	2	9D	4	1.2						
20	3	CP-D8001	RIO-D8001-1	4	22	DBD613MM	DIGESTER FAN 13 RUN	2	9D	4	3.4						
20	3	CP-D8001	RIO-D8001-1	4	23	DBD514MM	DIGESTER FAN 14 RUN STATUS	2	9D	4	5.6						
20	3	CP-D8001	RIO-D8001-1	4	24	DBD515MM	DIGESTER FAN 15 RUN STATUS	2	9D	4	7.8						
20	3	CP-D8001	RIO-D8001-1	4	25	DBD639MM	DIGESTER FAN 39 RUN	2	9D	3	1.2						
20	3	CP-D8001	RIO-D8001-1	4	26	DBD640MM	DIGESTER FAN 40 RUN	2	9D	3	3.4						
20	3	CP-D8001	RIO-D8001-1	4	27	DBD642MM	DIGESTER FAN 42 RUN	2	9D	3	5.6						
20	3	CP-D8001	RIO-D8001-1	4	28	DBD643MM	DIGESTER FAN 43 RUN	2	9D	3	7.8						
20	3	CP-D8001	RIO-D8001-1	4	29	DAB610MM	BOILER FAN 21 RUN STATUS	2	9D	1	1.2						
20	3	CP-D8001	RIO-D8001-1	4	30	DAB620MM	BOILER FAN 22 RUN STATUS	2	9D	1	3.4						
20	5	CP-D8001	RIO-D8001-1	4	31	DCD101YS	DIG 11 SLUDGE FEED C-H	4	1C	3	1.2						
20	5	CP-D8001	RIO-D8001-1	5	0	DCD101ZB	DIG 11 SLUDGE FEED CLS	4	1C	3	3.4						
20	5	CP-D8001	RIO-D8001-1	5	1	DCD101ZD	DIG 11 SLUDGE FEED OPN	4	1C	3	5.6						
20	5	CP-D8001	RIO-D8001-1	5	2	DCD102YS	DIG 9 SLUDGE FEED C-H	4	1C	3	7.8						
20	5	CP-D8001	RIO-D8001-1	5	3	DCD102ZB	DIG 9 SLUDGE FEED CLS	4	1C	1	1.2						
20	5	CP-D8001	RIO-D8001-1	5	4	DCD102ZD	DIG 9 SLUDGE FEED OPN	4	1C	1	3.4						
20	5	CP-D8001	RIO-D8001-1	5	5	DCD103YS	DIG 12 SLUDGE FEED C-H	4	1C	1	5.6						
20	5	CP-D8001	RIO-D8001-1	5	6	DCD103ZB	DIG 12 SLUDGE FEED CLS	4	1C	1	7.8						
20	5	CP-D8001	RIO-D8001-1	5	7	DCD103ZD	DIG 12 SLUDGE FEED OPN	4	1C	2	1.2						
20	5	CP-D8001	RIO-D8001-1	5	8	DCD104YS	DIG 10 SLUDGE FEED C-H	4	1C	2	3.4						
20	5	CP-D8001	RIO-D8001-1	5	9	DCD104ZB	DIG 10 SLUDGE FEED CLS	4	1C	2	5.6						
20	5	CP-D8001	RIO-D8001-1	5	10	DCD104ZD	DIG 10 SLUDGE FEED OPN	4	1C	2	7.8						
20	5	CP-D8001	RIO-D8001-1	5	11	DCD111MM	DP8 SL RECC PP RN	4	2C	4	1.2						
20	5	CP-D8001	RIO-D8001-1	5	12	DCD111YK	SL TEMP VLV C-H	4	2C	4	3.4						
20	5	CP-D8001	RIO-D8001-1	5	13	DCD111YS	DP8 SL RECC PP C-H	4	2C	4	5.6						
20	5	CP-D8001	RIO-D8001-1	5	14	DCD112MM	DP9 SL RECC PP RN	4	2C	4	7.8						
20	5	CP-D8001	RIO-D8001-1	5	15	DCD112YK	SL TEMP VLV C-H	4	2C	3	1.2						
20	5	CP-D8001	RIO-D8001-1	5	16	DCD113MM	DP10 SL RECC PP RN	4	2C	3	5.6						
20	5	CP-D8001	RIO-D8001-1	5	17	DCD114MM	DP11 SL RECC PP RN	4	2C	1	3.4						
20	5	CP-D8001	RIO-D8001-1	5	18	DCD114YK	SL TEMP VLV C-H	4	2C	1	5.6						
20	5	CP-D8001	RIO-D8001-1	5	19	DCD114YS	DP11 SL RECC PP C-H	4	2C	1	7.8						
20	5	CP-D8001	RIO-D8001-1	5	20	DCD191LH	DIG11 LEVEL HIGH	4	2C	2	1.2						
20	5	CP-D8001	RIO-D8001-1	5	21	DCD192LH	DIG 9 LEVEL HIGH	4	2C	2	3.4						
20	5	CP-D8001	RIO-D8001-1	5	22	DCD193LH	DIG12 LEVEL HIGH	4	2C	2	5.6						
20	5	CP-D8001	RIO-D8001-1	5	23	DCD194LH	DIG10 LEVEL HIGH	4	2C	2	7.8						
20	5	CP-D8001	RIO-D8001-1	5	24	DCD113YK	SL TEMP VLV C-H	4	3C	4	1.2						
20	5	CP-D8001	RIO-D8001-1	5	25	DCD112YS	DP9 SL RECC PP C-H	4	3C	4	3.4						
20	5	CP-D8001	RIO-D8001-1	5	26	DCD404YS	DR10 VALVE C-H	4	3C	4	7.8						
20	5	CP-D8001	RIO-D8001-1	5	27	DCD404ZB	DR10 VALVE CLS	4	3C	3	1.2						
20	5	CP-D8001	RIO-D8001-1	5	28	DCD404ZD	DR10 VALVE OPN	4	3C	3	3.4						
20	5	CP-D8001	RIO-D8001-1	5	29	DCD113YS	DP10 SL RECC PP C-H	4	3C	1	1.2						
20	5	CP-D8001	RIO-D8001-1	5	30	DCD420MM	DR2 GAL5 COMPRESSOR	4	4C	4	3.4						
20	5	CP-D8001	RIO-D8001-1	5	31	DCD420YS	DR2 GAL5 G CMP C-H	4	4C	4	5.6						
20	5	CP-D8001	RIO-D8001-1	6	0	DCD421PL	DR2 G SUCT PRESS LO	4	4C	4	7.8						
20	5	CP-D8001	RIO-D8001-1	6	1	DCD422PH	DR2 G DSCH PRESS H	4	4C	3	1.2						
20	5	CP-D8001	RIO-D8001-1	6	2	DCD423TH	DR2 G DISCH TEMP HI	4	4C	3	3.4						
20	5	CP-D8001	RIO-D8001-1	6	3	DCD425ZD	DR2 SUCT VLV OPEN	4	4C	3	5.6						
20	5	CP-D8001	RIO-D8001-1	6	4	DCD426TH	DR2 JACKET TEMP HI	4	4C	3	7.8						
20	5	CP-D8001	RIO-D8001-1	6	5	DCD427LL	DR2 OIL LEVEL LOW	4	4C	1	1.2						
20	5	CP-D8001	RIO-D8001-1	6	6	DCD428FL	DR2 COOLING WATER FLOW	4	4C	1	3.4						
20	5	CP-D8001	RIO-D8001-1	6	7	DCD429FL	DR2 OIL FLOW	4	4C	1	5.6						
20	5	CP-D8001	RIO-D8001-1	6	8	DCD430MM	DR3 GAL5 COMPRESSOR	4	4C	4	7.8						
20	5	CP-D8001	RIO-D8001-1	6	9	DCD430YS	DR3 GAL5 G CMP C-H	4	4C	2	1.2						
20	5	CP-D8001	RIO-D8001-1	6	10	DCD431PL	DR3 G SUCT PRESS LO	4	4C	2	3.4						
20	5	CP-D8001	RIO-D8001-1	6	11	DCD432PH	DR3 G DSCH PRESS H	4	4C	2	5.6						
20	5	CP-D8001	RIO-D8001-1	6	12	DCD433TH	DR3 G DISCH TEMP HI	4	4C	2	7.8						
20	5	CP-D8001	RIO-D8001-1	6	13	DCD435ZD	DR3 SUCT VLV OPEN	4	6C	4	3.4						
20	5	CP-D8001	RIO-D8001-1	6	14	DCD436TH	DR3 JACKET TEMP HI	4	6C	4	5.6						
20	5	CP-D8001	RIO-D8001-1	6	15	DCD437LL	DR3 OIL LEVEL LOW	4	6C	4	7.8						
20	5	CP-D8001	RIO-D8001-1	6	16	DCD438FL	DR3 COOLING WATER FLOW	4	6C	3	1.2						
20	5	CP-D8001	RIO-D8001-1	6	17	DCD439FL	DR3 OIL FLOW NORMAL	4	6C	3	3.4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	3	CP-D8001	RIO-D8001-1	9	11		SPARE	2	1C			2	5.6				
20	3	CP-D8001	RIO-D8001-1	9	12		SPARE	2	1C			2	7.8				
20	3	CP-D8001	RIO-D8001-1	9	13		SPARE	2	2C			4	1.2				
20	3	CP-D8001	RIO-D8001-1	9	14		SPARE	2	2C			4	3.4				
20	3	CP-D8001	RIO-D8001-1	9	15		SPARE	2	2C			4	5.6				
20	3	CP-D8001	RIO-D8001-1	9	16		SPARE	2	2C			4	7.8				
20	3	CP-D8001	RIO-D8001-1	9	17		SPARE	2	3C			3	3.4				
20	3	CP-D8001	RIO-D8001-1	9	18		SPARE	2	3C			3	5.6				
20	3	CP-D8001	RIO-D8001-1	9	19		SPARE	2	3C			3	7.8				
20	3	CP-D8001	RIO-D8001-1	9	20		SPARE	2	3C			1	1.2				
20	3	CP-D8001	RIO-D8001-1	9	21		SPARE	2	3C			1	3.4				
20	3	CP-D8001	RIO-D8001-1	9	22		SPARE	2	3C			1	5.6				
20	3	CP-D8001	RIO-D8001-1	9	23		SPARE	2	3C			1	7.8				
20	3	CP-D8001	RIO-D8001-1	9	24		SPARE	2	3C			2	1.2				
20	3	CP-D8001	RIO-D8001-1	9	25		SPARE	2	3C			2	3.4				
20	3	CP-D8001	RIO-D8001-1	9	26		SPARE	2	3C			2	5.6				
20	3	CP-D8001	RIO-D8001-1	9	27		SPARE	2	3C			2	7.8				
20	3	CP-D8001	RIO-D8001-1	9	28		SPARE	2	4C			4	1.2				
20	3	CP-D8001	RIO-D8001-1	9	29		SPARE	2	4C			4	3.4				
20	3	CP-D8001	RIO-D8001-1	9	30		SPARE	2	4C			4	5.6				
20	3	CP-D8001	RIO-D8001-1	9	31		SPARE	2	4C			4	7.8				
20	3						SPARE - NOT MIGRATED	2	4C			3	1.2				
20	3						SPARE - NOT MIGRATED	2	4C			3	3.4				
20	3						SPARE - NOT MIGRATED	2	4C			3	5.6				
20	3						SPARE - NOT MIGRATED	2	4C			3	7.8				
20	3						SPARE - NOT MIGRATED	2	4C			1	1.2				
20	3						SPARE - NOT MIGRATED	2	4C			2	3.4				
20	3						SPARE - NOT MIGRATED	2	4C			2	5.6				
20	3						SPARE - NOT MIGRATED	2	4C			2	7.8				
20	3						SPARE - NOT MIGRATED	2	5C			4	1.2				
20	3						SPARE - NOT MIGRATED	2	5C			4	3.4				
20	3						SPARE - NOT MIGRATED	2	5C			4	5.6				
20	3						SPARE - NOT MIGRATED	2	5C			2	7.8				
20	3						SPARE - NOT MIGRATED	2	6C			4	1.2				
20	3						SPARE - NOT MIGRATED	2	6C			4	3.4				
20	3						SPARE - NOT MIGRATED	2	6C			4	5.6				
20	3						SPARE - NOT MIGRATED	2	6C			4	7.8				
20	3						SPARE - NOT MIGRATED	2	6C			3	1.2				
20	3						SPARE - NOT MIGRATED	2	6C			3	3.4				
20	3						SPARE - NOT MIGRATED	2	6C			3	5.6				
20	3						SPARE - NOT MIGRATED	2	6C			3	7.8				
20	3						SPARE - NOT MIGRATED	2	6C			1	1.2				
20	3						SPARE - NOT MIGRATED	2	6C			1	3.4				
20	3						SPARE - NOT MIGRATED	2	6C			1	5.6				
20	3						SPARE - NOT MIGRATED	2	8C			1	7.8				
20	3						SPARE - NOT MIGRATED	2	8C			2	3.4				
20	3						SPARE - NOT MIGRATED	2	8C			2	5.6				
20	3						SPARE - NOT MIGRATED	2	8C			2	7.8				
20	3						SPARE - NOT MIGRATED	2	1B			4	5.6				
20	3						SPARE - NOT MIGRATED	2	1B			3	3.4				
20	3						SPARE - NOT MIGRATED	2	1B			1	1.2				
20	3						SPARE - NOT MIGRATED	2	1B			1	7.8				
20	3						SPARE - NOT MIGRATED	2	2B			4	1.2				
20	3						SPARE - NOT MIGRATED	2	2B			4	3.4				
20	3						SPARE - NOT MIGRATED	2	2B			4	5.6				
20	3						SPARE - NOT MIGRATED	2	2B			3	5.6				
20	3						SPARE - NOT MIGRATED	2	2B			1	1.2				
20	3						SPARE - NOT MIGRATED	2	2B			1	3.4				
20	3						SPARE - NOT MIGRATED	2	3B			2	5.6				
20	3						SPARE - NOT MIGRATED	2	3B			2	7.8				
20	3						SPARE - NOT MIGRATED	2	9C			3	3.4				
20	3						SPARE - NOT MIGRATED	2	9D			1	5.6				
20	3						SPARE - NOT MIGRATED	2	9D			1	7.8				
20	3						SPARE - NOT MIGRATED	2	9D			2	1.2				
20	3						SPARE - NOT MIGRATED	2	9D			2	3.4				
20	3						SPARE - NOT MIGRATED	2	9D			2	5.6				
20	3						SPARE - NOT MIGRATED	2	9D			2	7.8				
20	3						SPARE - NOT MIGRATED	2	10D			4	1.2				
20	3						SPARE - NOT MIGRATED	2	10D			4	3.4				
20	3						SPARE - NOT MIGRATED	2	10D			4	5.6				
20	3						SPARE - NOT MIGRATED	2	10D			4	7.8				
20	3						SPARE - NOT MIGRATED	2	10D			3	1.2				
20	3						SPARE - NOT MIGRATED	2	10D			3	3.4				
20	3						SPARE - NOT MIGRATED	2	10D			3	5.6				
20	3						SPARE - NOT MIGRATED	2	10D			3	7.8				
20	3						SPARE - NOT MIGRATED	2	10D			1	1.2				
20	3						SPARE - NOT MIGRATED	2	10D			1	3.4				
20	3						SPARE - NOT MIGRATED	2	10D			1	5.6				
20	3						SPARE - NOT MIGRATED	2	10D			1	7.8				
20	3						SPARE - NOT MIGRATED	2	10D			2	1.2				
20	3						SPARE - NOT MIGRATED	2	10D			2	3.4				
20	3						SPARE - NOT MIGRATED	2	10D			2	5.6				
20	3						SPARE - NOT MIGRATED	2	10D			2	7.8				
20	5						SPARE - NOT MIGRATED	4	1C			4	1.2				
20	5						SPARE - NOT MIGRATED	4	1C			4	3.4				
20	5						SPARE - NOT MIGRATED	4	1C			4	5.6				
20	5						SPARE - NOT MIGRATED	4	1C			4	7.8				
20	5						SPARE - NOT MIGRATED	4	2C			3	3.4				
20	5						SPARE - NOT MIGRATED	4	2C			3	7.8				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	5						SPARE - NOT MIGRATED	4 2C			1 1.2						
20	5						SPARE - NOT MIGRATED	4 3C			4 5.6						
20	5						SPARE - NOT MIGRATED	4 3C			3 5.6						
20	5						SPARE - NOT MIGRATED	4 3C			3 7.8						
20	5						SPARE - NOT MIGRATED	4 3C			1 3.4						
20	5						SPARE - NOT MIGRATED	4 3C			1 5.6						
20	5						SPARE - NOT MIGRATED	4 3C			1 7.8						
20	5						SPARE - NOT MIGRATED	4 3C			2 1.2						
20	5						SPARE - NOT MIGRATED	4 3C			2 3.4						
20	5						SPARE - NOT MIGRATED	4 3C			2 5.6						
20	5						SPARE - NOT MIGRATED	4 3C			2 7.8						
20	5						SPARE - NOT MIGRATED	4 4C			4 1.2						
20	5						SPARE - NOT MIGRATED	4 5C			4 1.2						
20	5						SPARE - NOT MIGRATED	4 6C			4 1.2						
20	5						SPARE - NOT MIGRATED	4 6C			4 3.4						
20	5						SPARE - NOT MIGRATED	4 6C			4 5.6						
20	5						SPARE - NOT MIGRATED	4 7C			4 7.8						
20	5						SPARE - NOT MIGRATED	4 7C			3 1.2						
20	5						SPARE - NOT MIGRATED	4 7C			3 3.4						
20	5						SPARE - NOT MIGRATED	4 8C			4 7.8						
20	5						SPARE - NOT MIGRATED	4 8C			3 1.2						
20	5						SPARE - NOT MIGRATED	4 8C			3 3.4						
20	5						SPARE - NOT MIGRATED	4 1B			4 1.2						
20	5						SPARE - NOT MIGRATED	4 2B			4 1.2						
20	5						SPARE - NOT MIGRATED	4 2B			4 3.4						
20	5						SPARE - NOT MIGRATED	4 2B			4 5.6						
20	5						SPARE - NOT MIGRATED	4 2B			4 7.8						
20	5						SPARE - NOT MIGRATED	4 2B			2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	5	CP-D8001	RIO-D8001-2	6	9	DCD474VB	BSTR7 VLV CTL		4 5D			2 1.2					
20	5	CP-D8001	RIO-D8001-2	6	10	DCD474VD	BSTR7 VLV CTL		4 5D			2 3.4					
20	5	CP-D8001	RIO-D8001-2	6	11	DCD480MN	GAL5 BSTR CTL		4 5D			2 5.6					
20	5	CP-D8001	RIO-D8001-2	6	12	DCD480MO	GAL5 BSTR CTL		4 5D			2 7.8					
20	5	CP-D8001	RIO-D8001-2	6	13	DCD480MX	GAL5 BSTR CTL		4 6D			1 1.2					
20	5	CP-D8001	RIO-D8001-2	6	14	DCD484VB	BSTR8 VLV CTL		4 6D			1 3.4					
20	5	CP-D8001	RIO-D8001-2	6	15	DCD484VD	BSTR8 VLV CTL		4 6D			1 5.6					
20	5	CP-D8001	RIO-D8001-2	7	0	DCD490MN	GAL5 BSTR CTL		4 6D			1 7.8					
20	5	CP-D8001	RIO-D8001-2	7	1	DCD490MO	GAL5 BSTR CTL		4 6D			2 1.2					
20	5	CP-D8001	RIO-D8001-2	7	2	DCD490MX	GAL5 BSTR CTL		4 6D			2 3.4					
20	5	CP-D8001	RIO-D8001-2	7	3	DCD494VB	BSTR9 VLV CTL		4 6D			2 5.6					
20	5	CP-D8001	RIO-D8001-2	7	4	DCD494VD	BSTR9 VLV CTL		4 6D			2 7.8					
20	5	CP-D8001	RIO-D8001-2	7	5	DCD521BN	WST G BRN2 CTL		4 7D			1 1.2					
20	5	CP-D8001	RIO-D8001-2	7	6	DCD531BN	WST G BRN3 CTL		4 7D			1 3.4					
20	5	CP-D8001	RIO-D8001-2	7	7	DCD704MO	S/E SL PP CTL		4 7D			1 7.8					
20	5	CP-D8001	RIO-D8001-2	7	8	DCD714MN	WTR HTG PP CTL		4 7D			2 1.2					
20	5	CP-D8001	RIO-D8001-2	7	9	DCD714MO	WTR HTG PP CTL		4 7D			2 3.4					
20	5	CP-D8001	RIO-D8001-2	7	10	DCD703MO	S/E SL PP CTL		4 7D			2 5.6					
20	5	CP-D8001	RIO-D8001-2	7	11	DCD111VB	DIG11 TEMP CTL		4 8D			1 1.2					
20	5	CP-D8001	RIO-D8001-2	7	12	DCD111VD	DIG11 TEMP CTL		4 8D			1 3.4					
20	5	CP-D8001	RIO-D8001-2	7	13	DCD112VB	DIG9 TEMP CTL		4 8D			1 5.6					
20	5	CP-D8001	RIO-D8001-2	7	14	DCD112VD	DIG9 TEMP CTL		4 8D			1 7.8					
20	5	CP-D8001	RIO-D8001-2	7	15	DCD113VB	DIG12 TEMP CTL		4 8D			2 1.2					
20	5	CP-D8001	RIO-D8001-2	8	0	DCD113VD	DIG12 TEMP CTL		4 8D			2 3.4					
20	5	CP-D8001	RIO-D8001-2	8	1	DCD114VB	DIG10 TEMP CTL		4 8D			2 5.6					
20	5	CP-D8001	RIO-D8001-2	8	2	DCD114VD	DIG10 TEMP CTL		4 8D			2 7.8					
20	3	CP-D8001	RIO-D8001-2	8	3		SPARE		2 1D			1 1.2					
20	3	CP-D8001	RIO-D8001-2	8	4		SPARE		2 1D			1 3.4					
20	3	CP-D8001	RIO-D8001-2	8	5		SPARE		2 1D			1 5.6					
20	3	CP-D8001	RIO-D8001-2	8	6		SPARE		2 1D			1 7.8					
20	3	CP-D8001	RIO-D8001-2	8	7		SPARE		2 1D			2 1.2					
20	3	CP-D8001	RIO-D8001-2	8	8		SPARE		2 1D			2 3.4					
20	3	CP-D8001	RIO-D8001-2	8	9		SPARE		2 1D			2 5.6					
20	3	CP-D8001	RIO-D8001-2	8	10		SPARE		2 1D			2 7.8					
20	3	CP-D8001	RIO-D8001-2	8	11		SPARE		2 3D			1 5.6					
20	3	CP-D8001	RIO-D8001-2	8	12		SPARE		2 3D			1 7.8					
20	3	CP-D8001	RIO-D8001-2	8	13		SPARE		2 3D			2 1.2					
20	3	CP-D8001	RIO-D8001-2	8	14		SPARE		2 3D			2 3.4					
20	3	CP-D8001	RIO-D8001-2	8	15		SPARE		2 3D			2 5.6					
20	3	CP-D8001	RIO-D8001-2	9	0		SPARE		2 3D			2 7.8					
20	3	CP-D8001	RIO-D8001-2	9	1		SPARE		2 4D			1 1.2					
20	3	CP-D8001	RIO-D8001-2	9	2		SPARE		2 4D			1 3.4					
20	3	CP-D8001	RIO-D8001-2	9	3		SPARE		2 4D			1 5.6					
20	3	CP-D8001	RIO-D8001-2	9	4		SPARE		2 4D			1 7.8					
20	3	CP-D8001	RIO-D8001-2	9	5		SPARE		2 4D			2 1.2					
20	3	CP-D8001	RIO-D8001-2	9	6		SPARE		2 4D			2 3.4					
20	3	CP-D8001	RIO-D8001-2	9	7		SPARE		2 4D			2 5.6					
20	3	CP-D8001	RIO-D8001-2	9	8		SPARE		2 4D			2 7.8					
20	3	CP-D8001	RIO-D8001-2	9	9		SPARE		2 5D			1 1.2					
20	3	CP-D8001	RIO-D8001-2	9	10		SPARE		2 5D			1 3.4					
20	3	CP-D8001	RIO-D8001-2	9	11		SPARE		2 5D			1 5.6					
20	3	CP-D8001	RIO-D8001-2	9	12		SPARE		2 5D			1 7.8					
20	3	CP-D8001	RIO-D8001-2	9	13		SPARE		2 5D			2 1.2					
20	3	CP-D8001	RIO-D8001-2	9	14		SPARE		2 6D			2 7.8					
20	3	CP-D8001	RIO-D8001-2	9	15		SPARE		2 7D			1 1.2					
20	3						SPARE - NOT MIGRATED		2 7D			1 3.4					
20	3						SPARE - NOT MIGRATED		2 7D			1 5.6					
20	3						SPARE - NOT MIGRATED		2 7D			1 7.8					
20	3						SPARE - NOT MIGRATED		2 7D			2 1.2					
20	3						SPARE - NOT MIGRATED		2 8D			2 5.6					
20	3						SPARE - NOT MIGRATED		2 8D			2 7.8					
20	3						SPARE - NOT MIGRATED		2 5B			1 1.2					
20	3						SPARE - NOT MIGRATED		2 5B			1 3.4					
20	3						SPARE - NOT MIGRATED		2 5B			1 5.6					
20	3						SPARE - NOT MIGRATED		2 5B			1 7.8					
20	3						SPARE - NOT MIGRATED		2 5B			2 1.2					
20	3						SPARE - NOT MIGRATED		2 5B			2 3.4					
20	3						SPARE - NOT MIGRATED		2 5B			1 5.6					
20	3						SPARE - NOT MIGRATED		2 6B			1 7.8					
20	3						SPARE - NOT MIGRATED		2 6B			2 1.2					
20	3						SPARE - NOT MIGRATED		2 6B			2 3.4					
20	3						SPARE - NOT MIGRATED		2 6B			2 5.6					
20	3						SPARE - NOT MIGRATED		2 6B			2 7.8					
20	3						SPARE - NOT MIGRATED		2 7B			1 1.2					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			1 3.4					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			1 5.6					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			1 7.8					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			2 1.2					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			2 3.4					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			2 5.6					24 VDC
20	3						SPARE - NOT MIGRATED		2 7B			2 7.8					24 VDC
20	3						SPARE - NOT MIGRATED		3 1A			2 1.2					
20	3						SPARE - NOT MIGRATED		3 2A			2 3.4					
20	3						SPARE - NOT MIGRATED		3 2A			2 5.6					
20	3						SPARE - NOT MIGRATED		3 2B			2 1.2					
20	3						SPARE - NOT MIGRATED		3 2B			2 3.4					
20	3						SPARE - NOT MIGRATED		3 2B			2 5.6					
20	3						SPARE - NOT MIGRATED		3 2B			2 7.8					
20	3						SPARE - NOT MIGRATED		3 1C			1 5.6					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
20	3						SPARE - NOT MIGRATED	3	1C		1 7.8						
20	3						SPARE - NOT MIGRATED	3	1C		2 1.2						
20	3						SPARE - NOT MIGRATED	3	1C		2 3.4						
20	3						SPARE - NOT MIGRATED	3	1C		2 5.6						
20	3						SPARE - NOT MIGRATED	3	1C		2 7.8						
20	3						SPARE - NOT MIGRATED	3	1D		1 1.2						
20	3						SPARE - NOT MIGRATED	3	1D		1 3.4						
20	3						SPARE - NOT MIGRATED	3	1D		1 5.6						
20	3						SPARE - NOT MIGRATED	3	1D		1 7.8						
20	3						SPARE - NOT MIGRATED	3	1D		2 1.2						
20	3						SPARE - NOT MIGRATED	3	1D		2 3.4						
20	3						SPARE - NOT MIGRATED	3	1D		2 5.6						
20	3						SPARE - NOT MIGRATED	3	1D		2 7.8						
20	3						SPARE - NOT MIGRATED	3	2C		1 5.6						
20	3						SPARE - NOT MIGRATED	3	2C		1 7.8						
20	3						SPARE - NOT MIGRATED	3	2C		2 1.2						
20	3						SPARE - NOT MIGRATED	3	2C		2 3.4						
20	3						SPARE - NOT MIGRATED	3	2C		2 5.6						
20	3						SPARE - NOT MIGRATED	3	2C		2 7.8						
20	3						SPARE - NOT MIGRATED	3	2D		1 1.2						
20	3						SPARE - NOT MIGRATED	3	2D		1 3.4						
20	3						SPARE - NOT MIGRATED	3	2D		1 5.6						
20	3						SPARE - NOT MIGRATED	3	2D		1 7.8						
20	3						SPARE - NOT MIGRATED	3	2D		2 1.2						
20	3						SPARE - NOT MIGRATED	3	2D		2 3.4						
20	3						SPARE - NOT MIGRATED	3	2D		2 5.6						
20	3						SPARE - NOT MIGRATED	3	2D		2 7.8						
20	5						SPARE - NOT MIGRATED	4	1D		1 1.2						
20	5						SPARE - NOT MIGRATED	4	1D		1 5.6						
20	5						SPARE - NOT MIGRATED	4	1D		2 1.2						
20	5						SPARE - NOT MIGRATED	4	1D		2 5.6						
20	5						SPARE - NOT MIGRATED	4	3D		1 1.2						
20	5						SPARE - NOT MIGRATED	4	3D		1 3.4						
20	5						SPARE - NOT MIGRATED	4	3D		2 1.2						
20	5						SPARE - NOT MIGRATED	4	3D		2 3.4						
20	5						SPARE - NOT MIGRATED	4	3D		2 5.6						
20	5						SPARE - NOT MIGRATED	4	7D		1 5.6						
20	5						SPARE - NOT MIGRATED	4	7D		2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
20	3	CP-D8002	RIO-D8001-3	1	0	DBD933XT	GAL6 PF IND	2	3A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	1	DBD115TT	DIG13 SL TEMP	2	3A		2 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	2	DBD115ZT	DIG13 TEMP VLV POSN	2	3A		2 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	3	DBD116TT	DIG14 SLUDGE TEMP	2	3A		2 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	4	DBD116ZT	DIG14 TEMP VLV POSN	2	3A		2 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	5	DBD125TT	DIG13 WATER TEMP	2	3A		3 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	6	DBD126TT	DIG14 WATER TEMP	2	3A		3 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	1	7	DBD135PT	DIG13 GAS PRESSURE	2	3A		3 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	0	DBD136PT	DIG14 GAS PRESSURE	2	3A		3 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	1	DBD145FT	DIG13 GAS WDL FLOW	2	3A		4 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	2	DBD146FT	DIG14 GAS WDL FLOW	2	3A		4 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	3	DBD146FT	DIG14 G WDL FL	2	3A		4 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	4	DBD270LT	HOLDING TANK 6 LEVEL	2	4A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	5	DBD280LT	HOLDING TANK 8 LEVEL	2	4A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	6	DBD350FT	DIG DRYING BED FLOW	2	4A		2 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	2	7	DBD900LT	DIG OVRFL TK1 LEVEL	2	4A		2 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	0	DBD930ET	MCC1D GAL4 VOLT IND	2	4A		3 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	1	DBD930XT	MCC1D GAL4 PF IND	2	4A		3 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	2	DBD931ET	MCC2D GAL4 VOLT IND	2	4A		3 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	3	DBD931XT	MCC2D GAL4 PF IND	2	4A		3 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	4	DBD932ET	DIST GAL6 VOLT IND	2	4A		4 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	5	DBD932XT	DIST GAL6 PF IND	2	4A		4 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	6	DBD933ET	DIST GAL6 VOLT IND	2	4A		4 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	3	7	DAB600TT	BOILER FAN 20 SUPPLY AIR TEMP	2	5A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	0	DAB601TT	BF20 BOILER RM TEMP	2	5A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	1	DAB602TT	BOILER FAN 20 MIXED AIR TEMP	2	5A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	2	DAB616TT	BOILER CTRL RM TEMP - BF23	2	5A		1 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	3	DBD632TT	DIGESTER FAN 1 SUPPLY AIR TEMP	2	5A		2 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	4	DBD633TT	DIGESTER FAN 1 SPACE TEMP	2	5A		2 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	5	DBD626TT1	DIGESTER FAN 2 SUPPLY AIR TEMP	2	5A		2 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	6	DBD626TT2	DIGESTER FAN 2 SPACE TEMP	2	5A		2 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-3	4	7	DBD638TT1	DIGESTER FAN 3 SUPPLY AIR TEMP	2	5A		3 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	0	DBD638TT2	DIGESTER FAN 3 SPACE TEMP	2	5A		3 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	1	DBD607TT1	DIGESTER FAN 5 SUPPLY AIR TEMP	2	5A		3 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	2	DBD607TT2	DIGESTER FAN 5 SPACE TEMP	2	5A		3 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	3	DBD608TT1	DIGESTER FAN 32 SUPPLY AIR TEMP	2	5A		4 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	4	DBD608TT2	DIGESTER FAN 32 SPACE TEMP	2	5A		4 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	5	DBD608TT3	DIGESTER FAN 32 MIXED AIR TEMP	2	5A		4 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	6	DBD610TT1	DIGESTER FAN 33 SUPPLY AIR TEMP	2	6A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-3	5	7	DBD610TT2	DIGESTER FAN 33 SPACE TEMP	2	6A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	0	DBD610TT3	DIGESTER FAN 33 MIXED AIR TEMP	2	6A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	1	DBD606TT1	DIGESTER FAN 34 SUPPLY AIR TEMP	2	6A		1 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	2	DBD616TT	DIGESTER FAN 35 CNTRL ROOM TEMP	2	6A		2 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	3	DBD614TT1	DIGESTER FAN 36 SUPPLY AIR TEMP	2	6A		2 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	4	DBD614TT2	DIGESTER FAN 36 SPACE TEMP	2	6A		3 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	5	DBD614TT3	DIGESTER FAN 36 MIXED AIR TEMP	2	6A		3 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	6	DBD612TT1	DIGESTER FAN 37 SUPPLY AIR TEMP	2	6A		3 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	6	7	DBD612TT2	DIGESTER FAN 37 SPACE TEMP	2	6A		3 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	0	DBD612TT3	DIGESTER FAN 37 MIXED AIR TEMP	2	6A		4 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	1	DBD639PT	DIGESTER FAN 39 STATIC PRESSURE	2	6A		4 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	2	DBD640PT	DIGESTER FAN 40 STATIC PRESSURE	2	6A		4 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	3	DBD600TT1	DIGESTER FAN 41 SUPPLY AIR TEMP	2	7A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	4	DBD600TT2	DIGESTER FAN 41 SPACE TEMP	2	7A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	5	DBD600TT3	DIGESTER FAN 41 MIXED AIR TEMP	2	7A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	6	DBD606TT2	DIGESTER FAN 34 SPACE TEMP	2	7A		1 7,8	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	7	7	DBD616TT2	DE16 DIGESTER OUTSIDE AIR TEMP	2	7A		1 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	0	DBD112FT	DIGESTER 9 SLUDGE FEED FLOW	2	7A		3 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	1	DBD114FT	Digester 10 Sludge Feed Flow	2	7A		3 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	2	DBD111FT	Digester 11 Sludge Feed Flow	2	7A		4 1,2	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	3	DBD113FT	Digester 12 Sludge Feed Flow	2	7A		4 5,6	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	4	DBD115FT	Digester 13 Sludge Feed Flow	2	8A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	5	DBD115LTT	Digester 13 Tank Level	2	8A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	6	DBD116FT	Digester 14 Sludge Feed Flow	2	8A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-3	8	7	DBD137PT	Digester 11 Tank Pressure	2	8A		2 3,4	24 VDC	4-20MA				
20	3	CP-D8002	RIO-D8001-3	9	0	DBD117LTT	Digester 9 Tank Level	2	8A		2 5,6	24 VDC	4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	1	DCD112TT	DIG 9 SLUDGE TEMP	4	3A		1 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	2	DCD111TT	DIG11 SLUDGE TEMP	4	3A		2 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	3	DCD111ZT	DIG11 TEMP VLV POSN	4	3A		2 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	4	DCD112ZT	DIG 9 TEMP VLV POSN	4	3A		2 7,8		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	5	DCD113TT	DIG12 SLUDGE TEMP	4	3A		3 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	6	DCD113ZT	DIG12 TEMP VLV POSN	4	3A		3 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	9	7	DCD114TT	DIG10 SLUDGE TEMP	4	3A		3 5,6		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	0	DCD114ZT	DIG10 TEMP VLV POSN	4	3A		3 7,8		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	1	DCD121TT	DIG11 WATER TEMP	4	3A		4 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	2	DCD122TT	DIG 9 WATER TEMP	4	3A		4 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	3	DCD123TT	DIG12 WATER TEMP	4	3A		4 5,6		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	4	DCD131PT	DIG11 GAS PRESSURE	4	4A		1 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	5	DCD132PT	DIG 9 GAS PRESSURE	4	4A		1 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	6	DCD133PT	DIG12 GAS PRESSURE	4	4A		1 5,6		4-20MA				
20	5	CP-D8002	RIO-D8001-3	10	7	DCD134PT	DIG10 GAS PRESSURE	4	4A		1 7,8		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	0	DCD141FT	OLD DIGESTER 11 GAS FLOW	4	4A		2 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	1	DCD142FT	DIGESTER 9 GAS FLOW	4	4A		2 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	2	DCD143FT	DIGESTER 12 GAS FLOW	4	4A		2 5,6		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	3	DCD144FT	DIGESTER 10 GAS FLOW	4	4A		2 7,8		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	4	DCD124TT	DIG10 WATER TEMP	4	4A		3 1,2		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	5	DCB901FT	BLR SYS GAS FL	4	4A		3 3,4		4-20MA				
20	5	CP-D8002	RIO-D8001-3	11	6	DCD502PT											

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
20	3	CP-D8002	RIO-D8001-4	1	1		SPARE		2 3A		1 1.2						4-20MA
20	3	CP-D8002	RIO-D8001-4	1	2		SPARE		2 3A		1 3.4						4-20MA
20	3	CP-D8002	RIO-D8001-4	1	3		SPARE		2 3A		1 7.8	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	1	4		SPARE		2 4A		1 5.6						4-20MA
20	3	CP-D8002	RIO-D8001-4	1	5		SPARE		2 4A		1 7.8	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	1	6		SPARE		2 4A		2 1.2	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	1	7		SPARE		2 4A		2 3.4	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	0		SPARE		2 6A		2 1.2	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	1		SPARE		2 6A		2 5.6	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	2		SPARE		2 7A		2 3.4	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	3		SPARE		2 7A		2 5.6	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	4		SPARE		2 7A		2 7.8						4-20MA
20	3	CP-D8002	RIO-D8001-4	2	5		SPARE		2 7A		3 3.4	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	6		SPARE		2 7A		3 7.8	24 VDC					4-20MA
20	3	CP-D8002	RIO-D8001-4	2	7		SPARE		2 7A		4 3.4	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		1 7.8	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		2 1.2	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		2 7.8						4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		3 1.2	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		3 3.4	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		3 5.6	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		3 7.8	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		4 1.2	24 VDC					4-20MA
20	3						SPARE - NOT MIGRATED		2 8A		4 3.4	24 VDC					4-20MA
20	5						SPARE - NOT MIGRATED		2 8A		4 5.6	24 VDC					4-20MA
20	5						SPARE - NOT MIGRATED		4 3A		1 3.4						4-20MA
20	5						SPARE - NOT MIGRATED		4 3A		1 5.6						4-20MA
20	5						SPARE - NOT MIGRATED		4 3A		1 7.8						4-20MA
20	5						SPARE - NOT MIGRATED		4 3A		2 5.6						4-20MA
20	5						SPARE - NOT MIGRATED		4 4A		3 5.6						4-20MA
20	5						SPARE - NOT MIGRATED		4 4A		4 5.6						4-20MA

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - DIGESTERS

Analog Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
20	3	CP-D8002	RIO-D8001-4	3	0	600DAC01	BOILER FAN 20 HEAT VALVE CONTROL		2 9A		4 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	3	1	600DA02	BOILER FAN 20 RETURN AIR DAMPER		2 9A		4 3,4		4-20MA				
20	3	CP-D8001	RIO-D8001-2	3	2	600DAC03	BF20 RETURN AIR DAMPER CONTROL		2 9A		4 5,6		4-20MA				
20	3	CP-D8001	RIO-D8001-2	3	3	632DBE01	DIGESTER FAN 1 CONTROL		2 9A		3 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	4	0	632DBE02	DIGESTER FAN 1 TEMP CONTROL		2 9A		3 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	4	1	626DBE01	DIGESTER FAN 2 CONTROL		2 9A		3 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	4	2	626DBE02	DIGESTER FAN 2 STATION		2 9A		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	4	3	638DBE01	DIGESTER FAN 3 CONTROL		2 9A		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	5	0	638DBE02	DIGESTER FAN 3 TEMP CONTROL		2 9A		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	5	1	607DBE01	DIGESTER FAN 5 RELIEF AIR DAMPER		2 9A		1 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-4	5	2	608DBE01	DIGESTER FAN 32 CONTROL		2 9A		2 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	5	3	608DBE02	DIGESTER FAN 32 MIXED AIR SP		2 9A		2 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	6	0	608DBE03	DIGESTER FAN 32 TEMP CONTROL		2 9A		2 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	6	1	610DBE01	DIGESTER FAN 33 HEAT VALVE CTRL		2 8B		4 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	6	2	610DBE02	DIGESTER FAN 33 CONTROL		2 8B		4 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	6	3	610DBE03	DIGESTER FAN 33 MIXED AIR SETPT		2 8B		4 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	7	0	606DBE01	DIGESTER FAN 34 CONTROL		2 8B		4 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-4	7	1	616DBE01	DIGESTER FAN 35 HEAT VALVE CTRL		2 8B		3 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	7	2	614DBE01	DIGESTER FAN 36 HEAT VALVE CTRL		2 8B		3 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	7	3	614DBE02	DIGESTER FAN 36 CONTROL		2 8B		3 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	8	0	614DBE03	DIGESTER FAN 36 MIXED AIR SP		2 8B		1 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	8	1	612DBE01	DIGESTER FAN 37 HEAT VALVE CNTRL		2 8B		1 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	8	2	612DBE02	DIGESTER FAN 37 CONTROL		2 8B		1 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	8	3	612DBE03	DIGESTER FAN 37 MIXED AIR SP		2 8B		1 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-4	9	0	639DBE01	DIGESTER FAN 39 CONTROL		2 8B		2 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	9	1	640DBE01	DIGESTER FAN 40 CONTROL		2 8B		2 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	9	2	600DBE01	BOILER FAN 20 CONTROL		2 10A		4 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	9	3	600DBE02	BOILER FAN 20 TEMP CONTROL		2 10A		4 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	10	0	600DBE03	BOILER FAN 20 MIXED AIR SETPT		2 10A		4 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	10	1		SPARE		2 9A		4 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-4	10	2		SPARE		2 8B		2 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	10	3		SPARE		2 10A		4 7,8		4-20MA				
20	3	CP-D8002	RIO-D8001-4	11	0		SPARE		2 10A		3 1,2		4-20MA				
20	3	CP-D8002	RIO-D8001-4	11	1		SPARE		2 10A		3 3,4		4-20MA				
20	3	CP-D8002	RIO-D8001-4	11	2		SPARE		2 10A		3 5,6		4-20MA				
20	3	CP-D8002	RIO-D8001-4	11	3		SPARE		2 10A		1 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		1 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		1 5,6		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		1 7,8		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		2 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		2 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 10A		2 5,6		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		4 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		4 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		4 5,6		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		4 7,8		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		3 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		3 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		3 5,6		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		1 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		1 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		1 5,6		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		1 7,8		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		2 1,2		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		2 3,4		4-20MA				
20	3						SPARE - NOT MIGRATED		2 9B		2 5,6		4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - GRIT

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
14	3	CP-G8001	RIO-G8001-1	1	0	GAG505MM	GRIT BWR3 RUN		2 4A		4 1.2						
14	3	CP-G8001	RIO-G8001-1	1	1	GAG505QF	GRIT BWR3 FAIL		2 4A		4 3.4						
14	3	CP-G8001	RIO-G8001-1	1	2	GAG505YS	GRIT BWR3 C/H		2 4A		4 5.6						
14	3	CP-G8001	RIO-G8001-1	1	3	GAG501MM	FLUSH PP1 RUN		2 4A		4 7.8						
14	3	CP-G8001	RIO-G8001-1	1	4	GAG501YS	FLUSH PP1 C/H		2 4A		3 1.2						
14	3	CP-G8001	RIO-G8001-1	1	5	GAG501PA	FLUSH PP1 ALM		2 4A		3 3.4						
14	3	CP-G8001	RIO-G8001-1	1	6	GAG210YS			2 4A		3 7.8						
14	3	CP-G8001	RIO-G8001-1	1	7	GAG150MM	BS 1 RUN		2 4A		1 3.4						
14	3	CP-G8001	RIO-G8001-1	1	8	GAG150YS	BS 1 C/H		2 4A		1 5.6						
14	3	CP-G8001	RIO-G8001-1	1	9	GAG150QF	BS 1 TRQ ALM		2 4A		1 7.8						
14	3	CP-G8001	RIO-G8001-1	1	10	GAG110ZB	GT1 POSN CLS		2 4A		2 1.2						
14	3	CP-G8001	RIO-G8001-1	1	11	GAG110ZD	GT1 POSN OPN		2 4A		2 3.4						
14	3	CP-G8001	RIO-G8001-1	1	12	GAG260MM	CTL RM FN1 RN		2 4A		2 5.6						
14	3	CP-G8001	RIO-G8001-1	1	13	GAG620QF	CTL RM FN1 F		2 4A		2 7.8						
14	3	CP-G8001	RIO-G8001-1	1	14	GAG506MM	GRIT BWR4 RUN		2 4B		4 1.2						
14	3	CP-G8001	RIO-G8001-1	1	15	GAG506QF	GRIT BWR4 FAIL		2 4B		4 3.4						
14	3	CP-G8001	RIO-G8001-1	1	16	GAG506YS	GRIT BWR4 C/H		2 4B		4 5.6						
14	3	CP-G8001	RIO-G8001-1	1	17	GAG502MM	FLUSH PP2 RUN		2 4B		4 7.8						
14	3	CP-G8001	RIO-G8001-1	1	18	GAG502YS	FLUSH PP2 C/H		2 4B		3 1.2						
14	3	CP-G8001	RIO-G8001-1	1	19	GAG502PA	FLUSH PP2 ALM		2 4B		3 3.4						
14	3	CP-G8001	RIO-G8001-1	1	20	GAG160MM	BS 2 RUN		2 4B		1 3.4						
14	3	CP-G8001	RIO-G8001-1	1	21	GAG160YS	BS 2 C/H		2 4B		1 5.6						
14	3	CP-G8001	RIO-G8001-1	1	22	GAG160QF	BS 2 TRQ ALM		2 4B		1 7.8						
14	3	CP-G8001	RIO-G8001-1	1	23	GAG120ZB	GT2 POSN CLS		2 4B		2 1.2						
14	3	CP-G8001	RIO-G8001-1	1	24	GAG120ZD	GT2 POSN OPN		2 4B		2 3.4						
14	3	CP-G8001	RIO-G8001-1	1	25	GAG621MM	CTL RM FN2 RN		2 4B		2 5.6						
14	3	CP-G8001	RIO-G8001-1	1	26	GAG621QF	CTL RM FN2 F		2 4B		2 7.8						
14	3	CP-G8001	RIO-G8001-1	1	27	GAG508MM	GRIT BWR5 RUN		2 5A		4 1.2						
14	3	CP-G8001	RIO-G8001-1	1	28	GAG508QF	GRIT BWR5 FAIL		2 5A		4 3.4						
14	3	CP-G8001	RIO-G8001-1	1	29	GAG508YS	GRIT BWR5 C/H		2 5A		4 5.6						
14	3	CP-G8001	RIO-G8001-1	1	30	GAG503MM	FLUSH PP3 RUN		2 5A		4 7.8						
14	3	CP-G8001	RIO-G8001-1	1	31	GAG503YS	FLUSH PP3 C/H		2 5A		3 1.2						
14	3	CP-G8001	RIO-G8001-1	2	0	GAG503PA	FLUSH PP3 ALM		2 5A		3 3.4						
14	3	CP-G8001	RIO-G8001-1	2	1	GAG170MM	BS 3 RUN		2 5A		1 3.4						
14	3	CP-G8001	RIO-G8001-1	2	2	GAG170YS	BS 3 C/H		2 5A		1 5.6						
14	3	CP-G8001	RIO-G8001-1	2	3	GAG170QF	BS 3 TRQ ALM		2 5A		1 7.8						
14	3	CP-G8001	RIO-G8001-1	2	4	GAG130ZB	GT3 POSN CLS		2 5A		2 1.2						
14	3	CP-G8001	RIO-G8001-1	2	5	GAG130ZD	GT3 POSN OPN		2 5A		2 3.4						
14	3	CP-G8001	RIO-G8001-1	2	6	GAG624MM	ELEC RM FN RUN		2 5A		2 5.6						
14	3	CP-G8001	RIO-G8001-1	2	7	GAG624QF	ELEC RM FN F		2 5A		2 7.8						
14	3	CP-G8001	RIO-G8001-1	2	8	GAG630MM	HOT WTR PP8 RUN		2 5B		4 1.2						
14	3	CP-G8001	RIO-G8001-1	2	9	GAG630TA	CC TEMP ALM		2 5B		4 3.4						
14	3	CP-G8001	RIO-G8001-1	2	10	GAG630PA	CC PRESS ALM		2 5B		4 5.6						
14	3	CP-G8001	RIO-G8001-1	2	11	GAG240MM	HOT WTR PP11 RUN		2 5B		4 7.8						
14	3	CP-G8001	RIO-G8001-1	2	12	GAG180MM	BS 4 RUN		2 5B		1 1.2						
14	3	CP-G8001	RIO-G8001-1	2	13	GAG180YS	BS 4 C/H		2 5B		1 3.4						
14	3	CP-G8001	RIO-G8001-1	2	14	GAG180QF	BS 4 TRQ ALM		2 5B		1 5.6						
14	3	CP-G8001	RIO-G8001-1	2	15	GAG140ZB	GT4 POS CLS		2 5B		1 7.8						
14	3	CP-G8001	RIO-G8001-1	2	16	GAG140ZD	GT4 POS OPN		2 5B		2 1.2						
14	3	CP-G8001	RIO-G8001-1	2	17	GAG610MM	TK FN4B RUN		2 5B		2 3.4						
14	3	CP-G8001	RIO-G8001-1	2	18	GAG610PA	TK FN4B FAIL		2 5B		2 5.6						
14	3	CP-G8001	RIO-G8001-1	2	19	GAG610YS	TK FN4B C/H		2 5B		2 7.8						
14	3	CP-G8001	RIO-G8001-1	2	20	GAG631MM	HOT WTR PP9 RUN		2 9A		4 1.2						
14	3	CP-G8001	RIO-G8001-1	2	21	GAG633MM	HOT WTR PP12 RN		2 9A		4 3.4						
14	3	CP-G8001	RIO-G8001-1	2	22	GAG632TA	CC TEMP ALM		2 9A		4 5.6						
14	3	CP-G8001	RIO-G8001-1	2	23	GAG632PA	CC PRESS ALM		2 9A		4 7.8						
14	3	CP-G8001	RIO-G8001-1	2	24	GAG608MM	TK FN4 RUN		2 9A		3 1.2						
14	3	CP-G8001	RIO-G8001-1	2	25	GAG608PA	TK FN4 FAIL		2 9A		3 3.4						
14	3	CP-G8001	RIO-G8001-1	2	26	GAG608YS	TK FN4 C/H		2 9A		3 5.6						
14	3	CP-G8001	RIO-G8001-1	2	27	GAG608ZD	FN4 DMPR OPN		2 9A		3 7.8						
14	3	CP-G8001	RIO-G8001-1	2	28	GAG605MM	TR BAY FN RUN		2 9A		1 1.2						
14	3	CP-G8001	RIO-G8001-1	2	29	GAG605QF	TR BAY FN F		2 9A		1 3.4						
14	3	CP-G8001	RIO-G8001-1	2	30	GAG618MM	BWR RM FN RUN		2 9A		1 5.6						
14	3	CP-G8001	RIO-G8001-1	2	31	GAG618QF	BWR RM FN F		2 9A		1 7.8						
14	3	CP-G8001	RIO-G8001-1	3	0	UAU002YS	YG12B COMP/HAND		2 9A		2 1.2						
14	3	CP-G8001	RIO-G8001-1	3	1	UAU002ZB	YG12B CLOSE LIMIT SW		2 9A		2 3.4						
14	3	CP-G8001	RIO-G8001-1	3	2	UAU002ZD	YG12B OPEN LIMIT SW		2 9A		2 5.6						
14	3	CP-G8001	RIO-G8001-1	3	3	GAG609MM	TK FN4A RUN		2 8B		4 1.2						
14	3	CP-G8001	RIO-G8001-1	3	4	GAG609PA	TK FN4A FAIL		2 8B		4 3.4						
14	3	CP-G8001	RIO-G8001-1	3	5	GAG609YS	TK FN4A C/H		2 8B		4 5.6						
14	3	CP-G8001	RIO-G8001-1	3	6	GAG609ZD	FN4A DAMP OPN		2 8B		4 7.8						
14	3	CP-G8001	RIO-G8001-1	3	7	GAG616XA	FIRE ALARM		2 8B		3 1.2						
14	3	CP-G8001	RIO-G8001-1	3	8	GAG616XX	FIRE TROUBLE		2 8B		3 3.4						
14	3	CP-G8001	RIO-G8001-1	3	9	GAG614MM	W BSMNT FN FUN		2 8B		1 3.4						
14	3	CP-G8001	RIO-G8001-1	3	10	GAG614QF	W BSMNT FN FUN		2 8B		1 5.6						
14	3	CP-G8001	RIO-G8001-1	3	11	GAG627TA	E BSMNT TEMP		2 8B		1 7.8						
14	3	CP-G8001	RIO-G8001-1	3	12	GAG535TA	CTL RM HI TEMP		2 8B		2 1.2						
14	3	CP-G8001	RIO-G8001-1	3	13	GAG611MM	TK FN5 RUN		2 8A		4 1.2						
14	3	CP-G8001	RIO-G8001-1	3	14	GAG611PA	TK FN5 FAIL		2 8A		4 3.4						
14	3	CP-G8001	RIO-G8001-1	3	15	GAG611YS	TK FN5 C/H		2 8A		4 5.6						
14	3	CP-G8001	RIO-G8001-1	3	16	GAG611ZD	FN5 DMPR OPN		2 8A		4 7.8						
14	3	CP-G8001	RIO-G8001-1	3	17	GAG250YS	STX CVY1 C/H		2 8A		3 1.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - GRIT

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
14	3	CP-G8001	RIO-G8001-1	3	18	GAG250MM	STX CVY1 RUN	2	8A		3.4						
14	3	CP-G8001	RIO-G8001-1	3	19	GAG250QF	STX CVY1 F	2	8A		3.6						
14	3	CP-G8001	RIO-G8001-1	3	20	GAG250ZB	HOP GATE1 CLS	2	8A		3.8						
14	3	CP-G8001	RIO-G8001-1	3	21	GAG150ZS	BS 1 CYC HI	2	8A		1.2						
14	3	CP-G8001	RIO-G8001-1	3	22	GAG542QF	HYDRO1 ALM	2	8A		1.4						
14	3	CP-G8001	RIO-G8001-1	3	23	GAG642ZD	DMPR POSN OPN	2	8A		1.6						
14	3	CP-G8001	RIO-G8001-1	3	24	GAG504LA	EAST SMP LVL	2	8A		1.8						
14	3	CP-G8001	RIO-G8001-1	3	25	GAU930IL	UV TRANSFORMER 1 GROUND CIRCUIT OPEN	2	8A		2.8						
14	3	CP-G8001	RIO-G8001-1	3	26	GAG613MM	TK FN6 RUN	2	7B		4.2						
14	3	CP-G8001	RIO-G8001-1	3	27	GAG613PA	TK FN6 FAIL	2	7B		4.4						
14	3	CP-G8001	RIO-G8001-1	3	28	GAG613YS	TK FN6 C/H	2	7B		4.6						
14	3	CP-G8001	RIO-G8001-1	3	29	GAG613ZD	FN6 DMPR OPN	2	7B		4.8						
14	3	CP-G8001	RIO-G8001-1	3	30	GAG260YS	STX CVY2 C/H	2	7B		3.2						
14	3	CP-G8001	RIO-G8001-1	3	31	GAG260MM	STX CVY2 RUN	2	7B		3.4						
14	3	CP-G8001	RIO-G8001-1	4	0	GAG260MQF	STX CVY2 F	2	7B		3.6						
14	3	CP-G8001	RIO-G8001-1	4	1	GAG260ZB	HOP GATE2 CLS	2	7B		3.8						
14	3	CP-G8001	RIO-G8001-1	4	2	GAG160ZS	BS 2 CYC HI	2	7B		1.2						
14	3	CP-G8001	RIO-G8001-1	4	3	GAG543QF	HYDRO2 ALM	2	7B		1.4						
14	3	CP-G8001	RIO-G8001-1	4	4	GAG643ZD	DMPR POSN OPN	2	7B		1.6						
14	3	CP-G8001	RIO-G8001-1	4	5	GAG510LA	GAL 4 SMP LVL	2	7B		1.8						
14	3	CP-G8001	RIO-G8001-1	4	6	GAG615MM	TK FN7 RUN	2	7A		4.2						
14	3	CP-G8001	RIO-G8001-1	4	7	GAG615PA	TK FN7 FAIL	2	7A		4.4						
14	3	CP-G8001	RIO-G8001-1	4	8	GAG615YS	TK FN7 C/H	2	7A		4.6						
14	3	CP-G8001	RIO-G8001-1	4	9	GAG615ZD	FN7 DMPR OPN	2	7A		4.8						
14	3	CP-G8001	RIO-G8001-1	4	10	GAG653YS	BACKWASH C/H	2	7A		3.2						
14	3	CP-G8001	RIO-G8001-1	4	11	GAG653ZD	BACKWASH OPN	2	7A		3.4						
14	3	CP-G8001	RIO-G8001-1	4	12	GAG544EL	DC PWR ALM	2	7A		1.4						
14	3	CP-G8001	RIO-G8001-1	4	13	GAG644ZD	DMPR POSN OPN	2	7A		1.6						
14	3	CP-G8001	RIO-G8001-1	4	14	GAG507LA	GAL 4 SMP LVL	2	7A		1.8						
14	3	CP-G8001	RIO-G8001-1	4	15	GAG612MM	TK FN8 RUN	2	6B		4.2						
14	3	CP-G8001	RIO-G8001-1	4	16	GAG612PA	TK FN8 FAIL	2	6B		4.4						
14	3	CP-G8001	RIO-G8001-1	4	17	GAG612YS	TK FN8 C/H	2	6B		4.6						
14	3	CP-G8001	RIO-G8001-1	4	18	GAG612ZD	FN8 DMPR OPN	2	6B		4.8						
14	3	CP-G8001	RIO-G8001-1	4	19	GAG528TA	TRANS 1 TEMP	2	6B		3.2						
14	3	CP-G8001	RIO-G8001-1	4	20	GAG526PA	EAST AIR LOW	2	6B		3.4						
14	3	CP-G8001	RIO-G8001-1	4	21	GAG606MM	E BSMT FN RN	2	6B		3.6						
14	3	CP-G8001	RIO-G8001-1	4	22	GAG606QF	E BSMT FN F	2	6B		3.8						
14	3	CP-G8001	RIO-G8001-1	4	23	GAG170ZS	BS3 CYC HI	2	6B		1.2						
14	3	CP-G8001	RIO-G8001-1	4	24	GAG645ZD	DMPR POSN OPN	2	6B		1.4						
14	3	CP-G8001	RIO-G8001-1	4	25	GAG534TA	ELEC RM TEMP	2	6B		1.6						
14	3	CP-G8001	RIO-G8001-1	4	26	GAG617MM	TK FN9 RUN	2	6A		4.2						
14	3	CP-G8001	RIO-G8001-1	4	27	GAG617PA	TK FN9 FAIL	2	6A		4.4						
14	3	CP-G8001	RIO-G8001-1	4	28	GAG617YS	TK FN9 C/H	2	6A		4.6						
14	3	CP-G8001	RIO-G8001-1	4	29	GAG617YS	TK FN9 C/H	2	6A		4.8						
14	3	CP-G8001	RIO-G8001-1	4	30	GAG617ZD	FN9 DMPR OPN	2	6A		3.2						
14	3	CP-G8001	RIO-G8001-1	4	31	GAG529TA	TRANS 2 TEMP	2	6A		3.4						
14	3	CP-G8001	RIO-G8001-1	4	0	GAG527PA	WEST AIR LOQ	2	6A		3.6						
14	3	CP-G8001	RIO-G8001-1	4	1	GAG607MM	XFER FN RUN	2	6A		3.8						
14	3	CP-G8001	RIO-G8001-1	4	2	GAG180ZS	BS 4 CYC HI	2	6A		1.2						
14	3	CP-G8001	RIO-G8001-1	4	3	GAG536QA	CTL RM DOR OPN	2	6A		1.4						
14	3	CP-G8001	RIO-G8001-1	4	4	GAG624PA	RM PRESS DIFF	2	6A		1.6						
14	3	CP-G8001	RIO-G8001-1	4	5		SPARE	2	4A		3.6						
14	3	CP-G8001	RIO-G8001-1	4	6		SPARE	2	4A		1.2						
14	3	CP-G8001	RIO-G8001-1	4	7		SPARE	2	4B		3.6						
14	3	CP-G8001	RIO-G8001-1	4	8		SPARE	2	4B		3.8						
14	3	CP-G8001	RIO-G8001-1	4	9		SPARE	2	4B		1.2						
14	3	CP-G8001	RIO-G8001-1	4	10		SPARE	2	5A		3.6						
14	3	CP-G8001	RIO-G8001-1	4	11		SPARE	2	5A		3.8						
14	3	CP-G8001	RIO-G8001-1	4	12		SPARE	2	5A		1.2						
14	3	CP-G8001	RIO-G8001-1	4	13		SPARE	2	5B		3.2						
14	3	CP-G8001	RIO-G8001-1	4	14		SPARE	2	5B		3.4						
14	3	CP-G8001	RIO-G8001-1	4	15		SPARE	2	5B		3.6						
14	3	CP-G8001	RIO-G8001-1	4	16		SPARE	2	5B		3.8						
14	3	CP-G8001	RIO-G8001-1	4	17		SPARE	2	9A		2.8						
14	3	CP-G8001	RIO-G8001-1	4	18		SPARE	2	8B		3.6						
14	3	CP-G8001	RIO-G8001-1	4	19		SPARE	2	8B		3.8						
14	3	CP-G8001	RIO-G8001-1	4	20		SPARE	2	8B		1.2						
14	3	CP-G8001	RIO-G8001-1	4	21		SPARE	2	8B		2.4						
14	3	CP-G8001	RIO-G8001-1	4	22		SPARE	2	8B		2.6						
14	3	CP-G8001	RIO-G8001-1	4	23		SPARE	2	8B		2.8						
14	3	CP-G8001	RIO-G8001-1	4	24		SPARE	2	8A		2.2						
14	3	CP-G8001	RIO-G8001-1	4	25		SPARE	2	8A		2.4						
14	3	CP-G8001	RIO-G8001-1	4	26		SPARE	2	8A		2.6						
14	3	CP-G8001	RIO-G8001-1	4	27		SPARE	2	7B		2.2						
14	3	CP-G8001	RIO-G8001-1	4	28		SPARE	2	7B		2.4						
14	3	CP-G8001	RIO-G8001-1	4	29		SPARE	2	7B		2.6						
14	3	CP-G8001	RIO-G8001-1	4	30		SPARE	2	7B		2.8						
14	3	CP-G8001	RIO-G8001-1	4	31		SPARE	2	7A		3.6						
14	3	CP-G8001	RIO-G8001-1	5	0		SPARE	2	7A		3.8						
14	3	CP-G8001	RIO-G8001-1	5	1		SPARE	2	7A		1.2						
14	3	CP-G8001	RIO-G8001-1	5	2		SPARE	2	7A		2.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - GRIT

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Descriptor	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
14	3	CP-G8001	RIO-G8001-1	7	0	GAG505MN	GRIT BWR3 STR		2 6D		1 1.2						
14	3	CP-G8001	RIO-G8001-1	7	1	GAG505MO	GRIT BWR3 STP		2 6D		1 3.4						
14	3	CP-G8001	RIO-G8001-1	7	2	GAG501MN	FLUSH PP1 STR		2 6D		1 5.6						
14	3	CP-G8001	RIO-G8001-1	7	3	GAG501MO	FLUSH PP1 STP		2 6D		1 7.8						
14	3	CP-G8001	RIO-G8001-1	7	6	GAG150MN	BS 1 STR		2 6D		2 5.6						
14	3	CP-G8001	RIO-G8001-1	7	7	GAG150MO	BS 1 STP		2 6D		2 7.8						
14	3	CP-G8001	RIO-G8001-1	7	8	GAG608MN	TK FN4 STR		2 7D		1 1.2						
14	3	CP-G8001	RIO-G8001-1	7	9	GAG608MO	TK FN4 STP		2 7D		1 3.4						
14	3	CP-G8001	RIO-G8001-1	7	10	GAG611MN	TK FN5 STR		2 7D		1 5.6						
14	3	CP-G8001	RIO-G8001-1	7	11	GAG611MO	TK FN5 STP		2 7D		1 7.8						
14	3	CP-G8001	RIO-G8001-1	7	12	U002VB	YG12B CLOSE		2 7D		2 1.2						
14	3	CP-G8001	RIO-G8001-1	7	13	U002VD	YG12B OPEN		2 7D		2 3.4						
14	3	CP-G8001	RIO-G8001-1	7	14	GAG506MN	GRIT BWR4 STR		2 6C		1 1.2						
14	3	CP-G8001	RIO-G8001-1	7	15	GAG506MO	GRIT BWR4 STP		2 6C		1 3.4						
14	3	CP-G8001	RIO-G8001-1	8	0	GAG502MN	FUSH PP2 STR		2 6C		1 5.6						
14	3	CP-G8001	RIO-G8001-1	8	1	GAG502MO	FLUSH PP2 STP		2 6C		1 7.8						
14	3	CP-G8001	RIO-G8001-1	8	2	GAG160MN	BS 2 STR		2 6C		2 5.6						
14	3	CP-G8001	RIO-G8001-1	8	3	GAG160MO	BS 2 STP		2 6C		2 7.8						
14	3	CP-G8001	RIO-G8001-1	8	6	GAG609MN	TK FN4A STR		2 7C		1 1.2						
14	3	CP-G8001	RIO-G8001-1	8	7	GAG609MO	TK FN4A STP		2 7C		1 3.4						
14	3	CP-G8001	RIO-G8001-1	8	8	GAG612MN	TK FN8 STR		2 7C		1 5.6						
14	3	CP-G8001	RIO-G8001-1	8	9	GAG612MO	TK FN8 STP		2 7C		1 7.8						
14	3	CP-G8001	RIO-G8001-1	8	10	GAG508MN	GRIT BWR5 STR		2 4D		1 1.2						
14	3	CP-G8001	RIO-G8001-1	8	11	GAG508MO	GRIT BWR5 STP		2 4D		1 3.4						
14	3	CP-G8001	RIO-G8001-1	8	12	GAG503MN	FLUSH PP3 STR		2 4D		1 5.6						
14	3	CP-G8001	RIO-G8001-1	8	13	GAG503MO	FLUSH PP3 STP		2 4D		1 7.8						
14	3	CP-G8001	RIO-G8001-1	8	14	GAG170MN	BS 3 STR		2 4D		2 5.6						
14	3	CP-G8001	RIO-G8001-1	8	15	GAG170MO	BS 3 STP		2 4D		2 7.8						
14	3	CP-G8001	RIO-G8001-1	9	0	GAG250MN	STX CVY1 STR		2 5D		1 1.2						
14	3	CP-G8001	RIO-G8001-1	9	1	GAG250MO	STX CVY1 STP		2 5D		1 3.4						
14	3	CP-G8001	RIO-G8001-1	9	2	GAG613MN	TK FN6 STR		2 5D		1 5.6						
14	3	CP-G8001	RIO-G8001-1	9	3	GAG613MO	TK FN6 STP		2 5D		1 7.8						
14	3	CP-G8001	RIO-G8001-1	9	6	GAG610MN	TK FN4B STR		2 5D		2 1.2						
14	3	CP-G8001	RIO-G8001-1	9	7	GAG610MO	TK FN4B STP		2 5D		2 3.4						
14	3	CP-G8001	RIO-G8001-1	9	8	GAG180MN	BS 4 STR		2 4C		1 5.6						
14	3	CP-G8001	RIO-G8001-1	9	9	GAG180MO	BS 4 STP		2 4C		1 7.8						
14	3	CP-G8001	RIO-G8001-1	9	10	GAG260MN	STX CVY2 STR		2 4C		2 1.2						
14	3	CP-G8001	RIO-G8001-1	9	11	GAG260MO	STX CVY2 STP		2 4C		2 3.4						
14	3	CP-G8001	RIO-G8001-1	9	12	GAG563VD	BACKWASH OPN		2 4C		2 5.6						
14	3	CP-G8001	RIO-G8001-1	9	13	GAG563VB	BACKWASH CLS		2 4C		2 7.8						
14	3	CP-G8001	RIO-G8001-1	9	14	GAG615MN	TK FN7 STR		2 5C		1 1.2						
14	3	CP-G8001	RIO-G8001-1	9	15	GAG615MO	TK FN7 STP		2 5C		1 3.4						
14	3	CP-G8001	RIO-G8001-1	10	0	GAG617MN	TK FN9 STR		2 5C		1 5.6						
14	3	CP-G8001	RIO-G8001-1	10	1	GAG617MO	TK FN9 STP		2 5C		1 7.8						
14	3	CP-G8001	RIO-G8001-1	10	2		SPARE		2 6D		2 1.2						
14	3	CP-G8001	RIO-G8001-1	10	3		SPARE		2 6D		2 3.4						
14	3	CP-G8001	RIO-G8001-1	10	6		SPARE		2 7D		2 5.6						
14	3	CP-G8001	RIO-G8001-1	10	7		SPARE		2 7D		2 7.8						
14	3	CP-G8001	RIO-G8001-1	10	8		SPARE		2 6C		2 1.2						
14	3	CP-G8001	RIO-G8001-1	10	9		SPARE		2 6C		2 3.4						
14	3	CP-G8001	RIO-G8001-1	10	10		SPARE		2 7C		2 1.2						
14	3	CP-G8001	RIO-G8001-1	10	11		SPARE		2 7C		2 3.4						
14	3	CP-G8001	RIO-G8001-1	10	12		SPARE		2 7C		2 5.6						
14	3	CP-G8001	RIO-G8001-1	10	13		SPARE		2 7C		2 7.8						
14	3	CP-G8001	RIO-G8001-1	10	14		SPARE		2 4D		2 1.2						
14	3	CP-G8001	RIO-G8001-1	10	15		SPARE		2 4D		2 3.4						
14	3						SPARE - NOT MIGRATED		2 5D		2 5.6						
14	3						SPARE - NOT MIGRATED		2 5D		2 7.8						
14	3						SPARE - NOT MIGRATED		2 4C		1 1.2						
14	3						SPARE - NOT MIGRATED		2 4C		1 3.4						
14	3						SPARE - NOT MIGRATED		2 5C		2 1.2						
14	3						SPARE - NOT MIGRATED		2 5C		2 3.4						
14	3						SPARE - NOT MIGRATED		2 5C		2 5.6						
14	3						SPARE - NOT MIGRATED		2 5C		2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - GRIT

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Descriptor	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
14	3	CP-G8001	RIO-G8001-1	11	0	GAG560PT	FLUSH WTR PRESS		2 8D		1 1.2		4-20MA				
14	3	CP-G8001	RIO-G8001-1	11	1	GAG625TT	OUTSIDE TEMP		2 8D		1 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-1	11	2	GAG626TT	TRUCK BAY TEMP		2 8D		1 5.6		4-20MA				
14	3	CP-G8001	RIO-G8001-1	11	4	GAG160LT	BS 2 LVL		2 8D		2 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-1	11	5	GAG530ET	MCC1 V IND		2 8D		2 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-1	11	7		G516 FLOW		2 8D		2 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	0		G517 POSITION		2 8D		3 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	1		G517 FLOW		2 8D		3 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	2	GAG629TT	BWR ROOM TEMP		2 9D		1 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	3	GAG629TT	W BSMNT TEMP		2 9D		1 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	4	GAG170LT	BS 3 LVL		2 9D		1 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	1	5	GAG180LT	BS 4 LVL		2 9D		1 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	6	GAG513ET	MCC2 V IND		2 9D		2 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	7		G517 TEMP		2 8D		3 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	0		G518 FLOW		2 8D		3 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	1		G519 POSITION		2 8D		4 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	2		G515 PRESSURE		2 8D		4 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	3	GAG150LT	BS 1 LVL		2 8D		4 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	4		G700 TANK 4 LEVEL		2 9D		2 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	2	5		G519 FLOW		2 9D		2 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	6		G519 TEMP		2 9D		2 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	7		G525 H2S LEVEL		2 9D		4 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	0		SPARE		2 8D		1 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	1		SPARE		2 8D		2 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	2		SPARE		2 9D		3 1.2	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	3		SPARE		2 9D		3 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	4		SPARE		2 9D		3 5.6	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	5		SPARE		2 9D		3 7.8	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	6		SPARE		2 9D		4 3.4	24 VDC	4-20MA				
14	3	CP-G8001	RIO-G8001-2	3	7		SPARE		2 9D		4 5.6	24 VDC	4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - GRIT

Analog Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
14	3	CP-G8001	RIO-G8001-2	4	0		G517 ZT CO		2 8C		4 1.2		4-20MA				
14	3	CP-G8001	RIO-G8001-2	4	1		G519 ZT CO		2 8C		4 3.4		4-20MA				
14	3	CP-G8001	RIO-G8001-2	4	2	GAG605TC	TR BAY FAN CTRL		2 8C		1 1.2		4-20MA				
14	3	CP-G8001	RIO-G8001-2	4	3	GAG606TC	E BSMNT FN CTRL		2 8C		1 3.4		4-20MA				
14	3	CP-G8001	RIO-G8001-2	5	0	GAG614TC	W BSMNT FN CTRL		2 8C		1 5.6		4-20MA				
14	3	CP-G8001	RIO-G8001-2	5	1	GAG618TC	BWR RM FN CTRL		2 8C		1 7.8		4-20MA				
14	3	CP-G8001	RIO-G8001-2	5	2		SPARE		2 8C		4 5.6		4-20MA				
14	3	CP-G8001	RIO-G8001-2	5	3		SPARE		2 8C		4 7.8		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		3 1.2		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		3 3.4		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		3 5.6		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		2 1.2		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		2 3.4		4-20MA				
14	3						SPARE - NOT MIGRATED		2 8C		2 5.6		4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - MAIN

CP-M8001	RIO-M8001-1	3	21	SPARE
CP-M8001	RIO-M8001-1	3	22	SPARE
CP-M8001	RIO-M8001-1	3	23	SPARE
CP-M8001	RIO-M8001-1	3	24	SPARE
CP-M8001	RIO-M8001-1	3	25	SPARE
CP-M8001	RIO-M8001-1	3	26	SPARE
CP-M8001	RIO-M8001-1	3	27	SPARE
CP-M8001	RIO-M8001-1	3	28	SPARE
CP-M8001	RIO-M8001-1	3	29	SPARE
CP-M8001	RIO-M8001-1	3	30	SPARE
CP-M8001	RIO-M8001-1	3	31	SPARE

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - PRIMARY CLARIFIERS

Digital Inputs						Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point													
10	3	CP-P8001	RIO-P8001-1	1	0	DDP560LA	PP9PP10 LOW FLOW ALARM	2 1C	4	1.2								
10	3	CP-P8001	RIO-P8001-1	1	1	DDPS2PP14	PRIMARY SUMP 2PP14 HIGH LEVEL	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	2	DDP201MM DDP401-1		2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	3	DDP104QF	CLFR1 RAKE OVLD	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	4	DDP201HM	SL PP L/R	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	5	DDP201OF	SL PP FAIL	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	6	DDP201SM	PP SPD CTL STS	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	7	DDP201YS	SL PP C/H	2 1C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	8	DDP926LA	HIGH SUMP LEVEL	2 2C	4	1.2								
10	3	CP-P8001	RIO-P8001-1	1	9	DDP007	CLFR2 O/L SHUTDOWN	2 2C	4	3.4								
10	3	CP-P8001	RIO-P8001-1	1	10	DDP008	CLFR 2 RUNNING	2 2C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	1	11	DDP009	CLFR 2 IMPENDING O/L	2 2C	3	1.2								
10	3	CP-P8001	RIO-P8001-1	1	12	DDP010	CLFR2 VLV C/H	2 2C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	1	13	DDP202YS		2 2C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	1	14	DDP2022B DD01		2 2C	3	5.6								
10	3	CP-P8001	RIO-P8001-1	1	15	DDP2022D DDP200		2 2C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	1	16	DDP204MM	CLFR 2 RAKE RN	2 2C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	1	17	DDP204QF	CLFR 2 RAKE OVLD	2 2C	1	5.6								
10	3	CP-P8001	RIO-P8001-1	1	18	DDP301HM	SL PP L/R	2 2C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	1	19	DDP301MM DDP401-1	SL PP RN	2 2C	2	1.2								
10	3	CP-P8001	RIO-P8001-1	1	20	DDP301SM	SL PP FAIL	2 2C	2	3.4								
10	3	CP-P8001	RIO-P8001-1	1	21	DDP301OF	PP SPD CTL STS	2 2C	2	5.6								
10	3	CP-P8001	RIO-P8001-1	1	22	DDP301YS DD01-A	CL PP C/H	2 2C	2	7.8								
10	3	CP-P8001	RIO-P8001-1	1	23	DDP1022B DD01	CLFR2 VLV CLS	2 3C	4	1.2								
10	3	CP-P8001	RIO-P8001-1	1	24	DDP1022D DDP100	CLFR2 VLV OPN	2 3C	4	3.4								
10	3	CP-P8001	RIO-P8001-1	1	25	DDP618TL	PF31 FREEZE STAT	2 3C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	1	26	DDP615MM	COND A RUN	2 3C	3	1.2								
10	3	CP-P8001	RIO-P8001-1	1	27	DDP619MM	COND B RUN	2 3C	3	1.2								
10	3	CP-P8001	RIO-P8001-1	1	28	DDP302YS	CLFR3 VLV C/H	2 3C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	1	29	DDP3022B DD01	CLFR3 VLV CLS	2 3C	3	5.6								
10	3	CP-P8001	RIO-P8001-1	1	30	DDP3022D DDP300	CLFR3 VLV OPN	2 3C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	1	31	DDP620MM	PF21 RUN	2 3C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	2	0	DDP304MM	CLFR3 RAKE RN	2 3C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	2	1	DDP304QF	CLFR3 RAKE OVLD	2 3C	1	5.6								
10	3	CP-P8001	RIO-P8001-1	2	2	DDP401HM	SL PP L/R	2 3C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	2	3	DDP401MM 1PP1 RUN STATUS DDP400	SL PP RN	2 3C	2	1.2								
10	3	CP-P8001	RIO-P8001-1	2	4	DDP401OF	SL PP FAIL	2 3C	2	3.4								
10	3	CP-P8001	RIO-P8001-1	2	5	DDP401SM	PP SPD CTL STS	2 3C	2	5.6								
10	3	CP-P8001	RIO-P8001-1	2	6	DDP401YS DD01-A	SL PP C/H	2 3C	2	7.8								
10	3	CP-P8001	RIO-P8001-1	2	7	DDP402YS DDP403YS DDP404YS DDP405YS DDP406YS	CLFR4 VLV C/H	2 4C	4	3.4								
10	3	CP-P8001	RIO-P8001-1	2	8	DDP4022B DD01-A	CLFR4 VLV CLS	2 4C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	2	9	DDP4022D DDP400-A P402HV OPEN STATUS	CLFR4 VLV OPN	2 4C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	2	10	DDP4032B DD01-B	CLFR4 VLV CLS	2 4C	3	1.2								
10	3	CP-P8001	RIO-P8001-1	2	11	DDP4032D DDP400-B P403HV OPEN STATUS	CLFR4 VLV OPN	2 4C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	2	12	DDP4042B DD01-C	CLFR4 VLV CLS	2 4C	3	5.6								
10	3	CP-P8001	RIO-P8001-1	2	13	DDP4042D DDP400-C P404HV OPEN STATUS	CLFR4 VLV OPN	2 4C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	2	14	DDP4052B DD01-D	CLFR4 VLV CLS	2 4C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	2	15	DDP4052D DDP400-D P405HV OPEN STATUS	CLFR4 VLV OPN	2 4C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	2	16	DDP4062B DD01-E	CLFR4 VLV CLS	2 4C	1	5.6								
10	3	CP-P8001	RIO-P8001-1	2	17	DDP4062D DDP400-E P406HV OPEN STATUS	CLFR4 VLV OPN	2 4C	1	7.8								
10	3	CP-P8001	RIO-P8001-1	2	18	DDP408MM	SCUM COLL 4 RUN	2 4C	2	3.4								
10	3	CP-P8001	RIO-P8001-1	2	19	DDP409QF	BRD64 PWR FAIL	2 4C	2	5.6								
10	3	CP-P8001	RIO-P8001-1	2	20	DDP408HM	SCUM COLL 4 STS	2 4C	2	7.8								
10	3	CP-P8001	RIO-P8001-1	2	21	DDP501HM	SL PP L/R	2 5C	4	1.2								
10	3	CP-P8001	RIO-P8001-1	2	22	DDP501MM 2PP4 RUN STATUS DDP400	SL PP RN	2 5C	4	3.4								
10	3	CP-P8001	RIO-P8001-1	2	23	DDP501OF	SL PP FAIL	2 5C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	2	24	DDP501SM	PP SPD CTL STS	2 5C	4	7.8								
10	3	CP-P8001	RIO-P8001-1	2	25	DDP501YS DD01-F	SL PP C/H	2 5C	3	1.2								
10	3	CP-P8001	RIO-P8001-1	2	26	DDP502YS DDP503YS DDP504YS DDP505YS DDP506YS	CLFR5 VLV C/H	2 5C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	2	27	DDP5022B DD01-A	CLFR5 VLV CLS	2 5C	3	5.6								
10	3	CP-P8001	RIO-P8001-1	2	28	DDP5022D DDP500-A P502HV OPEN STATUS	CLFR5 VLV OPN	2 5C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	2	29	DDP5032B DD01-B	CLFR5 VLV CLS	2 5C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	2	30	DDP5032D DDP500-B P503HV OPEN STATUS	CLFR5 VLV OPN	2 5C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	2	31	DDP5042B DD01-C	CLFR5 VLV CLS	2 5C	1	5.6								
10	3	CP-P8001	RIO-P8001-1	3	0	DDP5042D DDP500-C P504HV OPEN STATUS	CLFR5 VLV OPN	2 5C	1	7.8								
10	3	CP-P8001	RIO-P8001-1	3	1	DDP5052B DD01-D	CLFR5 VLV CLS	2 5C	2	1.2								
10	3	CP-P8001	RIO-P8001-1	3	2	DDP5052D DDP500-D P505HV OPEN STATUS	CLFR5 VLV OPN	2 5C	2	3.4								
10	3	CP-P8001	RIO-P8001-1	3	3	DDP5062B DD01-E	CLFR5 VLV CLS	2 5C	2	5.6								
10	3	CP-P8001	RIO-P8001-1	3	4	DDP5062D DDP500-E P506HV OPEN STATUS	CLFR5 VLV OPN	2 5C	2	7.8								
10	3	CP-P8001	RIO-P8001-1	3	5	DDP508MM	SCUM COLL 5 RN	2 6C	4	3.4								
10	3	CP-P8001	RIO-P8001-1	3	6	DDP509QF	BRD65 PWR FAIL	2 6C	4	5.6								
10	3	CP-P8001	RIO-P8001-1	3	7	DDP508HM	SCUM COLL 5 STS	2 6C	4	7.8								
10	3	CP-P8001	RIO-P8001-1	3	8	DDP600MM	CLFR AREA FN RN	2 6C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	3	9	DDP602MM	CLFR EXH FN RN	2 6C	3	5.6								
10	3	CP-P8001	RIO-P8001-1	3	10	DDP606MM	CLFR EXH FN RN	2 6C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	3	11	DDP604MM	CLFR FN FAIL	2 6C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	3	12	DDP604QF	CLFR FN FAIL	2 6C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	3	13	DDP606QF	SLFR FN FAIL	2 6C	1	7.8								
10	3	CP-P8001	RIO-P8001-1	3	14	DDP608MM	CLFR EXH FN RN	2 6C	2	1.2								
10	3	CP-P8001	RIO-P8001-1	3	15	DDP608QF	CLFR FN FAIL	2 6C	2	3.4								
10	3	CP-P8001	RIO-P8001-1	3	16	DDP610MM	CLFR EXH FN RN	2 6C	2	5.6								
10	3	CP-P8001	RIO-P8001-1	3	17	DDP610QF	CLFR FN FAIL	2 6C	2	7.8								
10	3	CP-P8001	RIO-P8001-1	3	18	DDP612MM	CLFR EXH FN RN	2 7C	4	7.8								
10	3	CP-P8001	RIO-P8001-1	3	19	DDP614MM	CLFR EXH FN RN	2 7C	3	3.4								
10	3	CP-P8001	RIO-P8001-1	3	20	DDP616MM	CTL RM HVAC RN	2 7C	3	7.8								
10	3	CP-P8001	RIO-P8001-1	3	21	DDP618CA	CTL RM FIL ALM	2 7C	1	1.2								
10	3	CP-P8001	RIO-P8001-1	3	22	CLFR 1 impeding O/L		2 7C	1	3.4								
10	3	CP-P8001	RIO-P8001-1	3	23	CLFR 1 O/L shutdown		2 7C	1	5.6								
10	3	CP-P8001	RIO-P8001-1	3	24	DDP617PL	CTL RM PRES LO	2 7C	1	7.8					</			

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - PRIMARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
10	3	CP-P8001	RIO-P8001-1	6	0	DDP201SB	SL PP SPD CTL	2	9D		4 1.2	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	1	DDP401SB	SL PP SPD CTL	2	9D		4 5.6	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	2	DDP401SD	SL PP SPD CTL	2	9D		4 7.8	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	3	DDP201SD	SL PP SPD CTL	2	9D		3 1.2	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	4	DDP301SB	SL PP SPD CTL	2	9D		1 5.6	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	5	DDP301SD	SL PP SPD CTL	2	9D		1 7.8	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	6	DDP201MN	CLFR1-3 PP 2 CTL	2	1D		1 5.6	24 VDC					
10	3	CP-P8001	RIO-P8001-1	6	7	DDP201MO	CLFR1-3 PP 2 CTL	2	1D		1 7.8						
10	3	CP-P8001	RIO-P8001-1	6	8	DDP202VD	CLFR2 VLV CTL	2	1D		2 1.2						
10	3	CP-P8001	RIO-P8001-1	6	9	DDP301MN	CLFR1-3 PP 3 CTL	2	1D		2 3.4						
10	3	CP-P8001	RIO-P8001-1	6	10	DDP301MO	CLFR1-3 PP 3 CTL	2	1D		2 5.6						
10	3	CP-P8001	RIO-P8001-1	6	11	DDP302VD	CLFR3 VLV CTL	2	1D		2 7.8						
10	3	CP-P8001	RIO-P8001-1	6	12	DDP405VD	CLFR4 VLV CTL	2	2D		1 1.2						
10	3	CP-P8001	RIO-P8001-1	6	13	DDP401MN	CLFR 4-5 PP 1 CTL	2	2D		1 3.4						
10	3	CP-P8001	RIO-P8001-1	6	14	DDP401MO	CLFR 4-5 PP 1 CTL	2	2D		1 5.6						
10	3	CP-P8001	RIO-P8001-1	6	15	DDP402VD	CLFR4 VLV CTL	2	2D		1 7.8						
10	3	CP-P8001	RIO-P8001-1	7	0	DDP404VD	CLFR4 VLV CTL	2	2D		2 3.4						
10	3	CP-P8001	RIO-P8001-1	7	1	DDP406VD	CLFR4 VLV CTL	2	2D		2 7.8						
10	3	CP-P8001	RIO-P8001-1	7	2	DDP403VD	DDP003	2	3D		1 1.2						
10	3	CP-P8001	RIO-P8001-1	7	3	DDP501MN	CLFR 4-5 PP 4 CTL	2	3D		1 3.4						
10	3	CP-P8001	RIO-P8001-1	7	4	DDP501MO	CLFR 4-5 PP 4 CTL	2	3D		1 5.6						
10	3	CP-P8001	RIO-P8001-1	7	5	DDP502VD	CLFR5 VLV CTL	2	3D		1 7.8						
10	3	CP-P8001	RIO-P8001-1	7	6	DDP503VD	CLFR5 VLV CTL	2	3D		2 1.2						
10	3	CP-P8001	RIO-P8001-1	7	7	DDP505VD	CLFR5 VLV CTL	2	3D		2 3.4						
10	3	CP-P8001	RIO-P8001-1	7	8	DDP506VD	CLFR5 VLV CTL	2	3D		2 5.6						
10	3	CP-P8001	RIO-P8001-1	7	9	DDP600MN	PF23 START	2	4D		1 1.2						
10	3	CP-P8001	RIO-P8001-1	7	10	DDP602MN	PF24 START	2	4D		1 3.4						
10	3	CP-P8001	RIO-P8001-1	7	11	DDP604MN	PF25	2	4D		1 5.6						
10	3	CP-P8001	RIO-P8001-1	7	12	DDP606MN	PF26	2	4D		1 7.8						
10	3	CP-P8001	RIO-P8001-1	7	13	DDP608MN	PF27	2	4D		2 1.2						
10	3	CP-P8001	RIO-P8001-1	7	14	DDP610MN	PF28	2	4D		2 3.4						
10	3	CP-P8001	RIO-P8001-1	7	15	DDP612MN	PF29	2	4D		2 5.6						
10	3	CP-P8001	RIO-P8001-1	8	0	DDP614MN	PF30 START	2	5D		1 1.2						
10	3	CP-P8001	RIO-P8001-1	8	1	DDP616MN	PF1 START	2	5D		1 3.4						
10	3	CP-P8001	RIO-P8001-1	8	2	DDP618MN	PF31 START	2	5D		1 5.6						
10	3	CP-P8001	RIO-P8001-1	8	3	DDP501MN	PE15 COND A START	2	5D		1 7.8						
10	3	CP-P8001	RIO-P8001-1	8	4	DDP619MN	COND B START	2	5D		2 1.2						
10	3	CP-P8001	RIO-P8001-1	8	5	810DDE01	DDP019	2	6D		1 1.2						
10	3	CP-P8001	RIO-P8001-1	8	6	820DDE01	DDP020	2	6D		1 3.4						
10	3	CP-P8001	RIO-P8001-1	8	7	830DDE01	DDP021	2	6D		1 5.6						
10	3	CP-P8001	RIO-P8001-1	8	8		SPARE	2	9D		4 3.4	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	9		SPARE	2	9D		3 3.4	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	10		SPARE	2	9D		3 5.6	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	11		SPARE	2	9D		3 7.8	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	12		SPARE	2	9D		1 1.2	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	13		SPARE	2	9D		1 3.4	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	14		SPARE	2	9D		2 1.2	24 VDC					
10	3	CP-P8001	RIO-P8001-1	8	15		SPARE	2	9D		2 3.4	24 VDC					
10	3						SPARE - NOT MIGRATED	2	9D		2 5.6	24 VDC					
10	3						SPARE - NOT MIGRATED	2	9D		2 7.8	24 VDC					
10	3						SPARE - NOT MIGRATED	2	1D		1 1.2						
10	3						SPARE - NOT MIGRATED	2	1D		1 3.4						
10	3						SPARE - NOT MIGRATED	2	2D		2 1.2						
10	3						SPARE - NOT MIGRATED	2	2D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	3D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	4D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	5D		2 3.4						
10	3						SPARE - NOT MIGRATED	2	5D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	5D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	6D		1 7.8						
10	3						SPARE - NOT MIGRATED	2	6D		2 1.2						
10	3						SPARE - NOT MIGRATED	2	6D		2 3.4						
10	3						SPARE - NOT MIGRATED	2	6D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	6D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	7D		1 1.2						
10	3						SPARE - NOT MIGRATED	2	7D		1 3.4						
10	3						SPARE - NOT MIGRATED	2	7D		1 5.6						
10	3						SPARE - NOT MIGRATED	2	7D		1 7.8						
10	3						SPARE - NOT MIGRATED	2	7D		2 1.2						
10	3						SPARE - NOT MIGRATED	2	7D		2 3.4						
10	3						SPARE - NOT MIGRATED	2	7D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	7D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	8D		1 1.2						
10	3						SPARE - NOT MIGRATED	2	8D		1 3.4						
10	3						SPARE - NOT MIGRATED	2	8D		1 5.6						
10	3						SPARE - NOT MIGRATED	2	8D		1 7.8						
10	3						SPARE - NOT MIGRATED	2	8D		2 1.2						
10	3						SPARE - NOT MIGRATED	2	8D		2 3.4						
10	3						SPARE - NOT MIGRATED	2	8D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	8D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	9D		1 1.2						
10	3						SPARE - NOT MIGRATED	2	9D		1 3.4						
10	3						SPARE - NOT MIGRATED	2	9D		1 5.6						
10	3						SPARE - NOT MIGRATED	2	9D		1 7.8						
10	3						SPARE - NOT MIGRATED	2	9D		2 1.2						
10	3						SPARE - NOT MIGRATED	2	9D		2 3.4						
10	3						SPARE - NOT MIGRATED	2	9D		2 5.6						
10	3						SPARE - NOT MIGRATED	2	9D		2 7.8						
10	3						SPARE - NOT MIGRATED	2	6A		1 1.2						
10	3						SPARE - NOT MIGRATED	2	6A		1 3.4						
10	3						SPARE - NOT MIGRATED	2	6A		1 5.6						
10	3						SPARE - NOT MIGRATED	2	6A		1 7.8						
10	3						SPARE - NOT MIGRATED	2	6A		2 1.2						
10	3						SPARE - NOT MIGRATED	2	6A		2 3.4						
10	3						SPARE - NOT MIGRATED	2	6A		2 5.6						
10	3						SPARE - NOT MIGRATED	2	6A		2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - PRIMARY CLARIFIERS

Analog Inputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
10	3	CP-P8001	RIO-P8001-2	1	0	DDP617TT	CONTROL ROOM TEMP	2 3A			1 1.2		4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	1	DDP660TT	ELECTRICAL ROOM TEMP	2 3A			1 3.4		4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	2		CLFR 1 TORQUE	2 3A			1 5.6		4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	3		CLFR 3 TORQUE	2 3A			2 1.2	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	4	DDP525AT	CENTRE RING H2S	2 3A			2 3.4	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	5		CLFR 2 TORQUE	2 3A			2 5.6	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	6	DDP201ST	PUMP 2PP2 SPEED	2 3A			3 1.2		4-20MA				
10	3	CP-P8001	RIO-P8001-2	1	7	DDP301ST	PUMP 1PP3 SPEED	2 3A			4 3.4	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	0	DDP401ST	PUMP 1PP1 SPEED	2 4A			1 3.4		4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	1		DEFECTIVE	2 4A			2 3.4	22 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	2	DDP702FT	SIPHON LINE FLOW	2 4A			2 5.6	23 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	3	DDP501ST	PUMP 2PP4 SPEED	2 4A			2 7.8	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	4	DDP931ET		2 4A			3 1.2		4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	5	DDP700FT	PRIMARY RAW SLUDGE FLOW	2 4A			3 5.6	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	6	DDP701DT	PRIMARY RAW SLUDGE DENSITY	2 4A			3 7.8	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	2	7	DDP930XT		2 4A			4 1.2	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	0	DDP930ET		2 4A			4 3.4	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	1	DDP931XT		2 4A			4 5.6	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	2	501DDA01	PP4 SPEED CTRL	2 7A			3 5.6		4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	3		SPARE	2 3A			1 7.8		4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	4		SPARE	2 3A			2 7.8		4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	5		SPARE	2 3A			3 3.4	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	6		SPARE	2 3A			3 5.6	24 VDC	4-20MA				
10	3	CP-P8001	RIO-P8001-2	3	7		SPARE	2 3A			3 7.8	24 VDC	4-20MA				
10	3						SPARE - NOT MIGRATED	2 3A			4 1.2	24 VDC	4-20MA				
10	3						SPARE - NOT MIGRATED	2 3A			4 5.6	24 VDC	4-20MA				
10	3						SPARE - NOT MIGRATED	2 4A			1 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 4A			1 5.6		4-20MA				
10	3						SPARE - NOT MIGRATED	2 4A			1 7.8		4-20MA				
10	3						SPARE - NOT MIGRATED	2 4A			2 1.2	21 VDC	4-20MA				
10	3						SPARE - NOT MIGRATED	2 4A			3 3.4	24 VDC	4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			4 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			4 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			4 5.6		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			4 7.8		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			3 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			3 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 5.6		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 7.8		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 5.6		4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - PRIMARY CLARIFIERS

Analog Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
10	3	CP-P8001	RIO-P8001-2	4	0	S01DDA01	PP4 SPEED CTRL	2 7A			3 5.6		4-20MA				
10	3	CP-P8001	RIO-P8001-2	4	1		SPARE	2 7A			4 1.2		4-20MA				
10	3	CP-P8001	RIO-P8001-2	4	2		SPARE	2 7A			4 3.4		4-20MA				
10	3	CP-P8001	RIO-P8001-2	4	3		SPARE	2 7A			4 5.6		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			4 7.8		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			3 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			3 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 5.6		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			1 7.8		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 1.2		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 3.4		4-20MA				
10	3						SPARE - NOT MIGRATED	2 7A			2 5.6		4-20MA				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - REACTORS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing	
12	3	CP-R8001	1IO-R8001-	1	0	AAR001	R970 RUN		2 1D		4	1.2						
12	3	CP-R8001	1IO-R8001-	1	1		R970 IN COMPUTER		2 1D		4	3.4						
12	3	CP-R8001	1IO-R8001-	1	2		R970 NORMAL		2 1D		4	5.6						
12	3	CP-R8001	1IO-R8001-	1	3	AAR910NA	HUMIDISAT		2 1D		3	7.8						
12	3	CP-R8001	1IO-R8001-	1	4	AAR240YS	1A/B BWR C/L		2 1D		1	1.2						
12	3	CP-R8001	1IO-R8001-	1	5	AAR907XS	CTL RM DOR ALM		2 1D		1	1.34						
12	3	CP-R8001	1IO-R8001-	1	6		CTL RM SMK ALM		2 1D		1	1.56						
12	3	CP-R8001	1IO-R8001-	1	7		ELECT RM TEMP HI		2 1D		1	1.78						
12	3	CP-R8001	1IO-R8001-	1	8	AAR100AA	1A HC 25% LEL		2 1D		2	1.2						
12	3	CP-R8001	1IO-R8001-	1	9	AAR100AH	1A HC 50% LEL		2 1D		2	3.4						
12	3	CP-R8001	1IO-R8001-	1	10	AAR100PA	1A 1ST HI PRES		2 1D		2	5.6						
12	3	CP-R8001	1IO-R8001-	1	11	AAR100PH	1A 2ND HI PRES		2 1D		2	7.8						
12	3	CP-R8001	1IO-R8001-	1	12	AAR100YS	1A 02 VLV C/L		2 2D		4	1.2						
12	3	CP-R8001	1IO-R8001-	1	13	AAR105YS	1A VNT VLV C/L		2 2D		4	3.4						
12	3	CP-R8001	1IO-R8001-	1	14	AAR110AA	1B HC 25% LEL		2 2D		4	5.6						
12	3	CP-R8001	1IO-R8001-	1	15	AAR110AH	1B HC 50% LEL		2 2D		4	7.8						
12	3	CP-R8001	1IO-R8001-	1	16	AAR110PA	1B 1ST HI PRES		2 2D		3	1.2						
12	3	CP-R8001	1IO-R8001-	1	17	AAR110PH	1B 2ND HI PRES		2 2D		3	3.4						
12	3	CP-R8001	1IO-R8001-	1	18	AAR110YS	1B 02 VLV C/L		2 2D		3	5.6						
12	3	CP-R8001	1IO-R8001-	1	19	AAR115YS	1B VNT VLV C/L		2 2D		3	7.8						
12	3	CP-R8001	1IO-R8001-	1	20	AAR201MM	1A STG 1 MXR RN		2 2D		1	1.2						
12	3	CP-R8001	1IO-R8001-	1	21	AAR201YS	1A STG 1 MXR		2 2D		1	3.4						
12	3	CP-R8001	1IO-R8001-	1	22	AAR202MM	1A STG 2 MXR RN		2 2D		1	5.6						
12	3	CP-R8001	1IO-R8001-	1	23	AAR202YS	1A STG 2 MXR		2 2D		1	7.8						
12	3	CP-R8001	1IO-R8001-	1	24	AAR203MM	1A STG 3 MXR RN		2 2D		2	1.2						
12	3	CP-R8001	1IO-R8001-	1	25	AAR203YS	1A STG 3 MXR		2 2D		2	3.4						
12	3	CP-R8001	1IO-R8001-	1	26	AAR204MM	1A STG 4 MXR RN		2 2D		2	5.6						
12	3	CP-R8001	1IO-R8001-	1	27	AAR204YS	1A STG 4 MXR		2 2D		2	7.8						
12	3	CP-R8001	1IO-R8001-	1	28	AAR211MM	1B STG 1 MXR RN		2 3D		4	1.2						
12	3	CP-R8001	1IO-R8001-	1	29	AAR211YS	1B STG 1 MXR		2 3D		4	3.4						
12	3	CP-R8001	1IO-R8001-	1	30	AAR212MM	1B STG 2 MXR RN		2 3D		4	5.6						
12	3	CP-R8001	1IO-R8001-	1	31	AAR212YS	1B STG 2 MXR		2 3D		4	7.8						
12	3	CP-R8001	1IO-R8001-	2	0	AAR213MM	1B STG 3 MXR RN		2 3D		3	1.2						
12	3	CP-R8001	1IO-R8001-	2	1	AAR213YS	1B STG 3 MXR		2 3D		3	3.4						
12	3	CP-R8001	1IO-R8001-	2	2	AAR214MM	1B STG 4 MXR RN		2 3D		3	5.6						
12	3	CP-R8001	1IO-R8001-	2	3	AAR214YS	1B STG 4 MXR		2 3D		3	7.8						
12	3	CP-R8001	1IO-R8001-	2	4	AAR240MM	1A/B BWR RN		2 3D		1	1.2						
12	3	CP-R8001	1IO-R8001-	2	5	AAR280AU	HC ON CALBRTN		2 3D		1	1.34						
12	3	CP-R8001	1IO-R8001-	2	6	AAR290UA	ANLYRZR SYS MALF		2 3D		1	1.56						
12	3	CP-R8001	1IO-R8001-	2	7	AAR310YS	1A PE VLV C/L		2 3D		1	1.78						
12	3	CP-R8001	1IO-R8001-	2	8	AAR320YS	1B PE VLV C/L		2 3D		2	1.2						
12	3	CP-R8001	1IO-R8001-	2	9	AAR330YS	2A PE VLV C/L		2 3D		2	3.4						
12	3	CP-R8001	1IO-R8001-	2	10	AAR340YS	2B PE VLV C/L		2 3D		2	5.6						
12	3	CP-R8001	1IO-R8001-	2	11	AAR350YS	3A PE VLV C/L		2 3D		2	7.8						
12	3	CP-R8001	1IO-R8001-	2	12	AAR360YS	3B PE VLV C/L		2 4D		4	1.2						
12	3	CP-R8001	1IO-R8001-	2	13	AAR601MM	HW PP RUN		2 4D		4	3.4						
12	3	CP-R8001	1IO-R8001-	2	14	AAR601QF	HW PP FAILED		2 4D		4	5.6						
12	3	CP-R8001	1IO-R8001-	2	15	AAR602MM	HE PP RUN		2 4D		4	7.8						
12	3	CP-R8001	1IO-R8001-	2	16	AAR603MM	EXH FAN RUN		2 4D		3	1.2						
12	3	CP-R8001	1IO-R8001-	2	17	AAR603QF	EXH FAN FAILEC		2 4D		3	3.4						
12	3	CP-R8001	1IO-R8001-	2	18	AAR605MM	EXH FAN RUN		2 4D		3	5.6						
12	3	CP-R8001	1IO-R8001-	2	19	AAR605QF	EXH FAN FAILEC		2 4D		3	7.8						
12	3	CP-R8001	1IO-R8001-	2	20	AAR606MM	EXH FAN RUN		2 4D		1	1.2						
12	3	CP-R8001	1IO-R8001-	2	21	AAR606QF	EXH FAN FAILEC		2 4D		1	1.34						
12	3	CP-R8001	1IO-R8001-	2	22	AAR607MM	CMP UNT RUN		2 4D		1	1.56						
12	3	CP-R8001	1IO-R8001-	2	23	AAR607QF	CMP UNT FAILED		2 4D		1	1.78						
12	3	CP-R8001	1IO-R8001-	2	24	AAR609MM	RECIRC UNT RUN		2 4D		2	1.2						
12	3	CP-R8001	1IO-R8001-	2	25	AAR609QF	RECIRC UNT FAILEC		2 4D		2	3.4						
12	3	CP-R8001	1IO-R8001-	2	26	AAR905TH	TRANSF HI TEMP		2 4D		2	5.6						
12	3	CP-R8001	1IO-R8001-	2	27	AAR906TH	TRANSF HI TEMP		2 4D		2	7.8						
13	3	CP-R8001	1IO-R8001-	2	28	ABR120AA	2A HC 25% LEL		2 1C		4	7.8						
13	3	CP-R8001	1IO-R8001-	2	29	ABR120AH	2A HC 50% LEL		2 1C		3	1.2						
13	3	CP-R8001	1IO-R8001-	2	30	ABR120PA	2A 1ST HI PRES		2 1C		3	3.4						
13	3	CP-R8001	1IO-R8001-	2	31	ABR120PH	2A 2ND HI PRES		2 1C		3	5.6						
13	3	CP-R8001	1IO-R8001-	3	0	ABR120YS	2A 02 VLV C/L		2 1C		3	7.8						
13	3	CP-R8001	1IO-R8001-	3	1	ABR125YS	2A VNT VLV C/L		2 1C		1	1.2						
13	3	CP-R8001	1IO-R8001-	3	2	ABR130AA	2B HC 25% LEL		2 1C		1	1.34						
13	3	CP-R8001	1IO-R8001-	3	3	ABR130AH	2B HC 50% LEL		2 1C		1	3.4						
13	3	CP-R8001	1IO-R8001-	3	4	ABR130PA	2B 1ST HI PRES		2 1C		1	5.6						
13	3	CP-R8001	1IO-R8001-	3	5	ABR130PH	2B 2ND HI PRES		2 1C		2	1.2						
13	3	CP-R8001	1IO-R8001-	3	6	ABR130YS	2B 02 VLV C/L		2 1C		2	3.4						
13	3	CP-R8001	1IO-R8001-	3	7	ABR135YS	2B VNT VLV C/L		2 1C		2	5.6						
13	3	CP-R8001	1IO-R8001-	3	8	ABR140AA	3A HC 25% LEL		2 1C		2	7.8						
13	3	CP-R8001	1IO-R8001-	3	9	ABR140AH	3A HC 50%LEL		2 2C		4	1.2						
13	3	CP-R8001	1IO-R8001-	3	10	ABR140PA	3A 1ST HI PRES		2 2C		4	3.4						
13	3	CP-R8001	1IO-R8001-	3	11	ABR140PH	3A 2ND HI PRES		2 2C		4	5.6						
13	3	CP-R8001	1IO-R8001-	3	12	ABR140YS	3A 02 VLV C/L		2 2C		4	7.8						
13	3	CP-R8001	1IO-R8001-	3	13	ABR145YS	3A VNT VLV C/L		2 2C		3	1.2						
13	3	CP-R8001	1IO-R8001-	3	14	ABR150AA	3B HC 25% LEL		2 2C		3	3.4						
13	3	CP-R8001	1IO-R8001-	3	15	ABR150AH	3B HC 50% LEL		2 2C		3	5.6						
13	3	CP-R8001	1IO-R8001-	3	16	ABR150PA	3B 1ST HI PRES		2 2C		3	7.8						
13	3	CP-R8001	1IO-R8001-	3	17	ABR150PH	3B 2ND HI PRES		2 2C		3	1.2						
13	3	CP-R8001	1IO-R8001-	3	18	ABR150YS	3B 02 VLV C/L		2 2C		3	1.34						
13	3	CP-R8001	1IO-R8001-	3	19	ABR155YS	3B VNT VLV C/L		2 2C		1	5.6						
13	3	CP-R8001	1IO-R8001-	3	20	ABR221MM	2A STG 1 MXR RN		2 2C		1	7.8						
13	3	CP-R8001	1IO-R8001-	3	21	ABR221YS	2A STG 1 MXR		2 2C		2	1.2						
13	3	CP-R8001	1IO-R8001-	3	22	ABR222MM	2A STG 2 MXR RN		2 2C		2	3.4						
13	3	CP-R8001	1IO-R8001-	3	23	ABR222YS	2A STG 2 MXR		2 2C		2	5.6						
13	3	CP-R8001	1IO-R8001-	3	24	ABR223MM	2A STG 3 MXR RN		2 2C		2	7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - REACTORS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
13	3	CP-R8001	RIO-R8001-	3	25	ABR223YS	2A STG 3 MXR		2	3C	4	1.2					
13	3	CP-R8001	RIO-R8001-	3	26	ABR224MM	2A STG 4 MXR RN		2	3C	4	3.4					
13	3	CP-R8001	RIO-R8001-	3	27	ABR224YS	2A STG 4 MXR		2	3C	4	5.6					
13	3	CP-R8001	RIO-R8001-	3	28	ABR231MM	2B STG 1 MXR RN		2	3C	4	7.8					
13	3	CP-R8001	RIO-R8001-	3	29	ABR231YS	2B STG 1 MXR		2	3C	3	1.2					
13	3	CP-R8001	RIO-R8001-	3	30	ABR232MM	2B STG 2 MXR RN		2	3C	3	3.4					
13	3	CP-R8001	RIO-R8001-	3	31	ABR232YS	2B STG 2 MXR		2	3C	3	5.6					
13	3	CP-R8001	RIO-R8001-	4	0	ABR233MM	2B STG 3 MXR RN		2	3C	3	7.8					
13	3	CP-R8001	RIO-R8001-	4	1	ABR233YS	2B STG 3 MXR		2	3C	1	1.2					
13	3	CP-R8001	RIO-R8001-	4	2	ABR234MM	2B STG 4 MXR RN		2	3C	1	3.4					
13	3	CP-R8001	RIO-R8001-	4	3	ABR234YS	2B STG 4 MXR		2	3C	1	5.6					
13	3	CP-R8001	RIO-R8001-	4	4	ABR241MM	3A STG 1 MXR RN		2	3C	2	1.2					
13	3	CP-R8001	RIO-R8001-	4	5	ABR241YS	3A STG 1 MXR		2	3C	2	3.4					
13	3	CP-R8001	RIO-R8001-	4	6	ABR242MM	3A STG 2 MXR RN		2	3C	2	5.6					
13	3	CP-R8001	RIO-R8001-	4	7	ABR242YS	3A STG 2 MXR		2	3C	2	7.8					
13	3	CP-R8001	RIO-R8001-	4	8	ABR243MM	3A STG 3 MXR RN					4	1.2				
13	3	CP-R8001	RIO-R8001-	4	9	ABR243YS	3A STG 3 MXR					4	3.4				
13	3	CP-R8001	RIO-R8001-	4	10	ABR244MM	3A STG 4 MXR RN					4	5.6				
13	3	CP-R8001	RIO-R8001-	4	11	ABR244YS	3A STG 4 MXR					4	7.8				
13	3	CP-R8001	RIO-R8001-	4	12	ABR250MM	2A/B BWR RN					3	1.2				
13	3	CP-R8001	RIO-R8001-	4	13	ABR250YS	2A/B BWR C/L					3	3.4				
13	3	CP-R8001	RIO-R8001-	4	14	ABR251MM	3B STG 1 MXR RN					3	5.6				
13	3	CP-R8001	RIO-R8001-	4	15	ABR251YS	3B STG 1 MXR					3	7.8				
13	3	CP-R8001	RIO-R8001-	4	16	ABR252MM	3B STG 2 MXR RN					1	1.2				
13	3	CP-R8001	RIO-R8001-	4	17	ABR252YS	3B STG 2 MXR					1	3.4				
13	3	CP-R8001	RIO-R8001-	4	18	ABR253MM	3B STG 3 MXR RN					1	5.6				
13	3	CP-R8001	RIO-R8001-	4	19	ABR253YS	3B STG 3 MXR					1	7.8				
13	3	CP-R8001	RIO-R8001-	4	20	ABR254MM	3B STG 4 MXR RN					2	1.2				
13	3	CP-R8001	RIO-R8001-	4	21	ABR254YS	3B STG 4 MXR					2	3.4				
13	3	CP-R8001	RIO-R8001-	4	22	ABR260MM	3A/B BWR RN					2	5.6				
13	3	CP-R8001	RIO-R8001-	4	23	ABR260YS	3A/B BWR C/L					2	7.8				
12	3	CP-R8001	RIO-R8001-	4	24		SPARE			2	1D	4	7.8				
12	3	CP-R8001	RIO-R8001-	4	25		SPARE			2	1D	3	1.2				
12	3	CP-R8001	RIO-R8001-	4	26		SPARE			2	1D	3	3.4				
12	3	CP-R8001	RIO-R8001-	4	27		SPARE			2	1D	3	5.6				
13	3	CP-R8001	RIO-R8001-	4	28		SPARE			2	1C	4	1.2				
13	3	CP-R8001	RIO-R8001-	4	29		SPARE			2	1C	4	3.4				
13	3	CP-R8001	RIO-R8001-	4	30		SPARE			2	1C	4	5.6				
13	3	CP-R8001	RIO-R8001-	4	31		SPARE			2	3C	1	7.8				

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - REACTORS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
12	3	CP-R8001	RIO-R8001-1	11	9		SPARE	2 5D			2 3,4						
12	3	CP-R8001	RIO-R8001-1	11	10		SPARE	2 5D			2 5,6						
12	3	CP-R8001	RIO-R8001-1	11	11		SPARE	2 5D			2 7,8						
12	3	CP-R8001	RIO-R8001-1	11	12		SPARE	2 8D			1 1,2						
12	3	CP-R8001	RIO-R8001-1	11	13		SPARE	2 8D			1 3,4						
12	3	CP-R8001	RIO-R8001-1	11	14		SPARE	2 8D			1 5,6						
12	3	CP-R8001	RIO-R8001-1	11	15		SPARE	2 8D			1 7,8						
13	3						SPARE - NOT MIGRATED	2 5C			1 1,2						
13	3						SPARE - NOT MIGRATED	2 5C			1 3,4						
13	3						SPARE - NOT MIGRATED	2 5C			1 5,6						
13	3						SPARE - NOT MIGRATED	2 5C			1 7,8						
13	3						SPARE - NOT MIGRATED	2 3B			2 1,2						
13	3						SPARE - NOT MIGRATED	2 3B			2 3,4						
13	3						SPARE - NOT MIGRATED	2 3B			2 5,6						
13	3						SPARE - NOT MIGRATED	2 3B			2 7,8						
13	3						SPARE - NOT MIGRATED	2 4B			1 1,2						
13	3						SPARE - NOT MIGRATED	2 4B			1 3,4						
13	3						SPARE - NOT MIGRATED	2 4B			1 5,6						
13	3						SPARE - NOT MIGRATED	2 4B			1 7,8						
13	3						SPARE - NOT MIGRATED	2 6B			2 1,2						
13	3						SPARE - NOT MIGRATED	2 6B			2 3,4						
13	3						SPARE - NOT MIGRATED	2 6B			2 5,6						
13	3						SPARE - NOT MIGRATED	2 6B			2 7,8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - REACTORS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm S	Loop Drawing
12	3	CP-R8001	1IO-R8001	1	0	AAR112AT	REACTOR 1 B HC LEVEL	2	5A	1	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	1	1	AAR340ZT	REACTOR 2B PE VALVE POSITION	2	5A	1	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	1	2	AAR256FT	SBR WAS PUMPING FLOW	2	5A	1	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	1	3	AAR923FT	SECONDARY RAS TOSBR TANK	2	5A	1	7,8	24	VDC				4-20MA
12	3	CP-R8001	1IO-R8001	1	5	AAR110FT	REACTOR 1A O2 FLOW	2	5A	2	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	1	6	AAR100PT	REACTOR 1A STG 1 PRESSURE	2	5A	2	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	1	7	AAR100ZT	REACTOR 1A O2 VALVE POSITION	2	5A	2	7,8						4-20MA
12	3	CP-R8001	1IO-R8001	2	0	AAR102AT	REACTOR 1A HC LEVEL	2	5A	3	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	2	1	AAR105ZT	REACTOR 1A VENT VALVE POSITION	2	5A	3	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	2	2	AAR107ZT	REACTOR 1A OXYGEN PURITY	2	5A	3	7,8						4-20MA
12	3	CP-R8001	1IO-R8001	2	3	AAR110FT	REACTOR 1B OXYGEN FLOW	2	5A	4	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	2	5	AAR110PT	REACTOR 1B STG 1 PRESSURE	2	5A	4	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	2	6	AAR102ZT	REACTOR 1B O2 VALVE POSITION	2	5A	4	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	2	7	AAR115ZT	1B VNT VLV POSN	2	6A	1	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	3	0	AAR117AT	1B STG 4 O2 PUR	2	6A	1	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	3	1	AAR210AIT	PE TEMPERATURE	2	6A	2	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	3	2	AAR301AIT	REACTOR PE LEL	2	6A	2	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	3	3	AAR302LT	REACTOR PE LEVEL	2	6A	2	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	3	5	AAR310FT	REACTOR 1A PE FLOW	2	6A	3	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	3	6	AAR310ZT	REACTOR 1A PE VALVE POSITION	2	6A	3	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	3	7	AAR320FT	REACTOR 1B PE FLOW	2	6A	3	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	4	0	AAR320ZT	REACTOR 1B PE VALVE POSITION	2	6A	3	7,8						4-20MA
12	3	CP-R8001	1IO-R8001	4	1	AAR330FT	REACTOR 2A PE FLOW	2	6A	4	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	4	2	AAR330ZT	REACTOR 2A PE VALVE POSITION	2	6A	4	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	4	3	AAR340FT	REACTOR 2B PE FLOW	2	6A	4	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	4	5	AAR161AT	AIR PRODUCTS OXYGEN PURITY	2	7A	1	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	4	6	AAR904XT	REACTOR R POWER FACTOR	2	7A	1	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	4	7	AAR350FT	REACTOR 3A PE FLOW	2	7A	3	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	5	0	AAR350ZT	REACTOR 3A PE VALVE POSITION	2	7A	3	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	5	1	AAR360FT	REACTOR 3B PE FLOW	2	7A	3	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	5	2	AAR360ZT	REACTOR 3B PE VALVE POSITION	2	7A	3	7,8						4-20MA
12	3	CP-R8001	1IO-R8001	5	3	AAR901ET	REACTORS 1R VOLT INDICATION	2	7A	4	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	5	5	AAR902XT	REACTOR 1R POWER FACTOR	2	7A	4	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	5	6	AAR902ET	REACTORS 2R VOLT INDICATION	2	7A	4	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	5	7	ABR140FT	REACTOR 3A O2 FLOW	2	7B	1	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	6	0	ABR120FT	REACTOR 2A O2 FLOW	2	7B	1	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	6	1	ABR120PT	REACTOR 2A STG 1 PRESSURE	2	7B	1	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	6	2	ABR120ZT	REACTOR 2A O2 VALVE POSITION	2	7B	1	7,8	24	VDC				4-20MA
13	3	CP-R8001	1IO-R8001	6	3	ABR122AT	REACTOR 2A HC LEVEL	2	7B	2	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	6	5	ABR125ZT	REACTOR 2A VENT VALVE POSITION	2	7B	2	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	6	6	ABR127AT	REACTOR 2A OXYGEN PURITY	2	7B	2	7,8						4-20MA
13	3	CP-R8001	1IO-R8001	6	7	ABR130FT	REACTOR 2B O2 FLOW	2	7B	3	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	7	0	ABR130PT	REACTOR 2B STG 1 PRESSURE	2	7B	3	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	7	1	ABR130ZT	REACTOR 2B O2 VALVE POSITION	2	7B	3	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	7	2	ABR132AT	REACTOR 2B HC LEVEL	2	7B	3	7,8						4-20MA
13	3	CP-R8001	1IO-R8001	7	3	ABR135ZT	REACTOR 2B VENT VALVE POSITION	2	7B	4	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	7	5	ABR137AT	REACTOR 2B OXYGEN PURITY	2	7B	4	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	7	6	ABR140FT	REACTOR 3A O2 FLOW	2	8B	1	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	7	7	ABR120FT	REACTOR 2A O2 FLOW	2	8B	1	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	8	0	ABR120PT	REACTOR 2A STG 1 PRESSURE	2	8B	1	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	8	1	ABR120ZT	REACTOR 2A O2 VALVE POSITION	2	8B	1	7,8	24	VDC				4-20MA
13	3	CP-R8001	1IO-R8001	8	2	ABR122AT	REACTOR 2A HC LEVEL	2	8B	2	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	8	3	ABR125ZT	REACTOR 2A VENT VALVE POSITION	2	8B	2	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	8	5	ABR127AT	REACTOR 2A OXYGEN PURITY	2	8B	2	7,8						4-20MA
13	3	CP-R8001	1IO-R8001	8	6	ABR130FT	REACTOR 2B O2 FLOW	2	8B	3	1,2						4-20MA
13	3	CP-R8001	1IO-R8001	8	7	ABR130PT	REACTOR 2B STG 1 PRESSURE	2	8B	3	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	9	0	ABR130ZT	REACTOR 2B O2 VALVE POSITION	2	8B	3	5,6						4-20MA
13	3	CP-R8001	1IO-R8001	9	1	ABR132AT	REACTOR 2B HC LEVEL	2	8B	3	7,8						4-20MA
13	3	CP-R8001	1IO-R8001	9	2	ABR135ZT	REACTOR 2B VENT VALVE POSITION	2	8B	4	3,4						4-20MA
13	3	CP-R8001	1IO-R8001	9	3	ABR137AT	REACTOR 2B OXYGEN PURITY	2	8B	4	5,6						4-20MA
12	3	CP-R8001	1IO-R8001	9	5		SPARE	2	5A	2	1,2						4-20MA
12	3	CP-R8001	1IO-R8001	9	6		SPARE	2	5A	3	3,4						4-20MA
12	3	CP-R8001	1IO-R8001	9	7		SPARE	2	6A	1	1,2						4-20MA
12	3						SPARE - NOT MIGRATED	2	6A	1	7,8	24	VDC				4-20MA
12	3						SPARE - NOT MIGRATED	2	6A	2	7,8						4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	1	5,6						4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	1	7,8	24	VDC				4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	2	1,2						4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	2	3,4						4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	2	5,6						4-20MA
12	3						SPARE - NOT MIGRATED	2	7A	2	7,8						4-20MA
13	3						SPARE - NOT MIGRATED	2	7B	2	3,4						4-20MA
13	3						SPARE - NOT MIGRATED	2	7B	4	1,2						4-20MA
13	3						SPARE - NOT MIGRATED	2	8B	2	3,4						4-20MA
13	3						SPARE - NOT MIGRATED	2	8B	4	1,2						4-20MA

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	3	CP-S8001	RIO-S8001-1	1	0	BAS731MM	SC1 CLFR 1 COLL RN		1 3B		1 1,2						
15	3	CP-S8001	RIO-S8001-1	1	1	BAS731QF	SC1 CLFR1 COLL FAIL		1 3B		1 3,4						
15	3	CP-S8001	RIO-S8001-1	1	2	BAS731YS	SC1 CLFR 1 COLL C-H		1 3B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	1	3	BAS732MM	SC2 CLFR 2 COLL RN		1 3B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	1	4	BAS732QF	SC2 CLFR2 COLL FAIL		1 3B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	1	5	BAS732YS	SC2 CLFR 2 COLL C-H		1 3B		2 3,4						
15	3	CP-S8001	RIO-S8001-1	1	6	BAS733MM	SC3 CLFR 3 COLL RN		1 3B		2 5,6						
15	3	CP-S8001	RIO-S8001-1	1	7	BAS733QF	SC3 CLFR3 COLL FAIL		1 3B		2 7,8						
15	3	CP-S8001	RIO-S8001-1	1	8	BAS733YS	SC3 CLFR 3 COLL C-H		1 4B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	1	9	BAS734MM	SC4 CLFR 4 COLL RN		1 4B		4 3,4						
15	3	CP-S8001	RIO-S8001-1	1	10	BAS734QF	SC4 CLFR4 COLL FAIL		1 4B		4 5,6						
15	3	CP-S8001	RIO-S8001-1	1	11	BAS734YS	SC4 CLFR 4 COLL C-H		1 4B		4 7,8						
15	3	CP-S8001	RIO-S8001-1	1	12	BAS735MM	SC5 CLFR 5 COLL RN		1 4B		3 1,2						
15	3	CP-S8001	RIO-S8001-1	1	13	BAS735QF	SC5 CLFR5 COLL FAIL		1 4B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	1	14	BAS735YS	SC5 CLFR 5 COLL C-H		1 4B		3 5,6						
15	3	CP-S8001	RIO-S8001-1	1	15	BAS736MM	SC6 CLFR 6 COLL RN		1 4B		3 7,8						
15	3	CP-S8001	RIO-S8001-1	1	16	BAS736QF	SC6 CLFR6 COLL FAIL		1 4B		1 1,2						
15	3	CP-S8001	RIO-S8001-1	1	17	BAS736YS	SC6 CLFR 6 COLL C-H		1 4B		1 3,4						
15	3	CP-S8001	RIO-S8001-1	1	18	BAS737MM	SC7 CLFR 7 COLL RN		1 4B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	1	19	BAS737QF	SC7 CLFR7 COLL FAIL		1 4B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	1	20	BAS737YS	SC7 CLFR 7 COLL C-H		1 4B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	1	21	BAS738MM	SC8 CLFR 8 COLL RN		1 4B		2 3,4						
15	3	CP-S8001	RIO-S8001-1	1	22	BAS738QF	SC8 CLFR8 COLL FAIL		1 4B		2 5,6						
15	3	CP-S8001	RIO-S8001-1	1	23	BAS738YS	SC8 CLFR 8 COLL C-H		1 4B		2 7,8						
15	3	CP-S8001	RIO-S8001-1	1	24	BAS739MM	SC9 CLFR 9 COLL RN		1 5B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	1	25	BAS739QF	SC9 CLFR9 COLL FAIL		1 5B		4 3,4						
15	3	CP-S8001	RIO-S8001-1	1	26	BAS739YS	SC9 CLFR 9 COLL C-H		1 5B		4 5,6						
15	3	CP-S8001	RIO-S8001-1	1	27	BAS740MM	SC10 CLFR10 COLL RN		1 5B		4 7,8						
15	3	CP-S8001	RIO-S8001-1	1	28	BAS740QF	SC10 CLFR10 COLL FAIL		1 5B		3 1,2						
15	3	CP-S8001	RIO-S8001-1	1	29	BAS740YS	SC10 CLFR10 COLL C-H		1 5B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	1	30	BAS841LH	TRN 3 ML CHNL3 LEVEL		1 5B		3 5,6						
15	3	CP-S8001	RIO-S8001-1	1	31	BAS842LH	TRN 2 ML CHNL2 LEVEL		1 5B		3 7,8						
15	3	CP-S8001	RIO-S8001-1	2	0	BAS843LH	TRN 1 ML CHNL1 LEVEL		1 5B		1 1,2						
15	3	CP-S8001	RIO-S8001-1	2	1	BAS901MM	RAP1 SL PUMP RN		1 5B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	2	2	BAS901QF	RAP1 SL PUMP FAIL		1 5B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	2	3	BAS901YS	RAP1 SL PUMP C-H		1 5B		2 3,4						
15	3	CP-S8001	RIO-S8001-1	2	4	BAS902MM	RAP2 SL PUMP RN		1 6B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	2	5	BAS908YS	RAP8 SL PUMP C-H		1 8B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	2	6	BAS902QF	RAP2 SL PUMP FAIL		1 6B		4 3,4						
15	3	CP-S8001	RIO-S8001-1	2	7	BAS902YS	RAP2 SL PUMP C-H		1 6B		4 5,6						
15	3	CP-S8001	RIO-S8001-1	2	8	BAS903MM	RAP3 SL PUMP RN		1 6B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	2	9	BAS903QF	RAP3 SL PUMP FAIL		1 6B		3 5,6						
15	3	CP-S8001	RIO-S8001-1	2	10	BAS903YS	RAP3 SL PUMP C-H		1 6B		3 7,8						
15	3	CP-S8001	RIO-S8001-1	2	11	BAS904MM	RAP4 SL PUMP RN		1 6B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	2	12	BAS904QF	RAP4 SL PUMP FAIL		1 6B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	2	13	BAS904YS	RAP4 SL PUMP C-H		1 6B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	2	14	BAS905MM	RAP5 SL PUMP RN		1 6B		2 7,8						
15	3	CP-S8001	RIO-S8001-1	2	15	BAS905QF	RAP5 SL PUMP FAIL		1 7B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	2	16	BAS905YS	RAP5 SL PUMP C-H		1 7B		4 3,4						
15	3	CP-S8001	RIO-S8001-1	2	17	BAS906MM	RAP6 SL PUMP RN		1 7B		3 1,2						
15	3	CP-S8001	RIO-S8001-1	2	18	BAS906QF	RAP6 SL PUMP FAIL		1 7B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	2	19	BAS906YS	RAP6 SL PUMP C-H		1 7B		3 5,6						
15	3	CP-S8001	RIO-S8001-1	2	20	BAS907MM	RAP7 SL PUMP RN		1 7B		1 3,4						
15	3	CP-S8001	RIO-S8001-1	2	21	BAS907QF	RAP7 SL PUMP FAIL		1 7B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	2	22	BAS907YS	RAP7 SL PUMP C-H		1 7B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	2	23	BAS908MM	RAP8 SL PUMP RN		1 7B		2 5,6						
15	3	CP-S8001	RIO-S8001-1	2	24	BAS908QF	RAP8 SL PUMP FAIL		1 7B		2 7,8						
15	3	CP-S8001	RIO-S8001-1	2	25	BAS909MM	RAP9 SL PUMP RN		1 8B		4 7,8						
15	3	CP-S8001	RIO-S8001-1	2	26	BAS909QF	RAP9 SL PUMP FAIL		1 8B		3 1,2						
15	3	CP-S8001	RIO-S8001-1	2	27	BAS909YS	RAP9 SL PUMP C-H		1 8B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	2	28	BAS910MM	RAP10 SL PUMP RN		1 8B		1 1,2						
15	3	CP-S8001	RIO-S8001-1	2	29	BAS910QF	RAP10 SL PUMP FAIL		1 8B		1 3,4						
15	3	CP-S8001	RIO-S8001-1	2	30	BAS910YS	RAP10 SL PUMP C-H		1 8B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	2	31	BAS941YS	TRN 3 WAS VLV C-H		1 8B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	3	0	BAS941ZB	TRN 3 WAS VLV CLS		1 8B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	3	1	BAS941ZD	TRN 3 WAS VLV OPN		1 8B		2 3,4						
15	3	CP-S8001	RIO-S8001-1	3	2	BAS942YS	TRN 2 WAS VLV C-H		1 8B		2 5,6						
15	3	CP-S8001	RIO-S8001-1	3	3	BAS942ZB	TRN 2 WAS VLV CLS		1 8B		2 7,8						
15	3	CP-S8001	RIO-S8001-1	3	4	BAS942ZD	WAS VLV 2 OPN		1 9B		4 1,2						
15	3	CP-S8001	RIO-S8001-1	3	5	BAS943YS	TRN 1 WAS VLV C-H		1 9B		4 3,4						
15	3	CP-S8001	RIO-S8001-1	3	6	BAS943ZB	WAS VLV 1 CLS		1 9B		4 5,6						
15	3	CP-S8001	RIO-S8001-1	3	7	BAS943ZD	WAS VLV 1 OPN		1 9B		4 7,8						
15	3	CP-S8001	RIO-S8001-1	3	8	BAS951MM	WAP1 WAS PUMP RN		1 9B		3 1,2						
15	3	CP-S8001	RIO-S8001-1	3	9	BAS951QF	WAP1 WAS PUMP FAILED		1 9B		3 3,4						
15	3	CP-S8001	RIO-S8001-1	3	10	BAS951YS	WAS Pump 1 in Hand		1 9B		3 5,6						
15	3	CP-S8001	RIO-S8001-1	3	11	BAS952MM	WAP2 WAS PUMP RN		1 9B		3 7,8						
15	3	CP-S8001	RIO-S8001-1	3	12	BAS952QF	WAP2 WAS PUMP FAILED		1 9B		1 1,2						
15	3	CP-S8001	RIO-S8001-1	3	13	BAS952YS	WAP2 WAS PUMP C-H		1 9B		1 3,4						
15	3	CP-S8001	RIO-S8001-1	3	14	BAS953MM	WAP3 WAS PUMP RN		1 9B		1 5,6						
15	3	CP-S8001	RIO-S8001-1	3	15	BAS953QF	WAP3 WAS PUMP FAILED		1 9B		1 7,8						
15	3	CP-S8001	RIO-S8001-1	3	16	BAS953YS	WAP3 WAS PUMP C-H		1 9B		2 1,2						
15	3	CP-S8001	RIO-S8001-1	3	17	BAS954MM	WAP4 WAS PUMP RN		1 9B		2 3,4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	3	CP-S8001	RIO-S8001-1	3	18	BAS954QF	WAP4 WAS PUMP FAILED		1 9B		2 5.6						
15	3	CP-S8001	RIO-S8001-1	3	19	BAS954YS	WAP4 WAS PUMP 4 C-H		1 9B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	3	20	BBS530AF	PE SAMP NORMAL-FAIL		3 3B		4 3.4						
15	5	CP-S8001	RIO-S8001-1	3	21	BBS530AM	PE SAMP RN		3 3B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	3	22	BBS530YS	PE SAMP COMP-HAND		3 3B		4 7.8						
15	5	CP-S8001	RIO-S8001-1	3	23	BBS531AF	TRN 2 SAMP NORMAL/FAIL		3 3B		3 1.2						
15	5	CP-S8001	RIO-S8001-1	3	24	BBS531AM	TRN 2 SAMP RN		3 3B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	3	25	BBS531YS	TRN 2 SAMP C-H		3 3B		3 5.6						
15	5	CP-S8001	RIO-S8001-1	3	26	BBS532AF	TRN 3 SAMP NORMAL/FAIL		3 3B		3 7.8						
15	5	CP-S8001	RIO-S8001-1	3	27	BBS532AM	TRN 3 SAMP RN		3 3B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	3	28	BBS532YS	TRN 3 SAMP C-H		3 3B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	3	29		TRN 1 (1-8 SAMP NORMAL/FAIL OBSOLETE)		3 3B		2 3.4						
15	5	CP-S8001	RIO-S8001-1	3	30		TRN 1 (1-8 SAMP RN OBSOLETE)		3 3B		2 5.6						
15	5	CP-S8001	RIO-S8001-1	3	31		TRN 1 (1-8 SAMP C-H OBSOLETE)		3 3B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	4	0	BBS461MM	SP6 SCUM PUMP RN		3 4B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	4	1	BBS461PH	SP6 SCUM PUMP PRES		3 4B		4 7.8						
15	5	CP-S8001	RIO-S8001-1	4	2	BBS461QF	SP6 SCUM PUMP FAIL		3 4B		3 1.2						
15	5	CP-S8001	RIO-S8001-1	4	3	BBS461YS	SP6 SCUM PUMP C-H		3 4B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	4	4	BBS463YS	SC HV DSCH VLV 6 C-H		3 4B		3 5.6						
15	5	CP-S8001	RIO-S8001-1	4	5	BBS463ZB	SC HV DSCH VLV 6 CLS		3 4B		3 7.8						
15	5	CP-S8001	RIO-S8001-1	4	6	BBS463ZD	SC HV DSCH VLV 6 OPN		3 4B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	4	7	BBS464YS	SC HV RECC VLV 6 C-H		3 4B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	4	8	BBS464ZB	SC HV RECC VLV 6 CLS		3 4B		1 5.6						
15	5	CP-S8001	RIO-S8001-1	4	9	BBS464ZD	SC HV RECC VLV 6 OPN		3 4B		1 7.8						
15	5	CP-S8001	RIO-S8001-1	4	10	BBS465YS	SC HV FLSH VLV 6 C-H		3 4B		2 1.2						
15	5	CP-S8001	RIO-S8001-1	4	11	BBS468YS	SC11 SC TRH VLV C-H		3 4B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	4	12	BBS468ZB	ZB LMT SW BDG TVL		3 5B		4 1.2						
15	5	CP-S8001	RIO-S8001-1	4	13	BBS469YS	SC13 SC TRH VLV C-H		3 5B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	4	14	BBS469ZB	ZB LMT SW BDG TVL		3 5B		4 7.8						
15	5	CP-S8001	RIO-S8001-1	4	15	BBS471MM	SP7 SCUM PUMP RN		3 5B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	4	16	BBS471PH	SP7 SCUM PUMP PRES		3 5B		3 5.6						
15	5	CP-S8001	RIO-S8001-1	4	17	BBS471QF	SP7 SCUM PUMP FAIL		3 5B		3 7.8						
15	5	CP-S8001	RIO-S8001-1	4	18	BBS471YS	SP7 SC PUMP C-H		3 5B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	4	19	BBS473YS	SC HV DSCH VLV 7 C-H		3 5B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	4	20	BBS473ZB	SC HV DSCH VLV 7 CLS		3 5B		1 5.6						
15	5	CP-S8001	RIO-S8001-1	4	21	BBS473ZD	SC HV DSCH VLV 7 OPN		3 5B		1 7.8						
15	5	CP-S8001	RIO-S8001-1	4	22	BBS474YS	SC HV RECC VLV 7 C-H		3 5B		2 1.2						
15	5	CP-S8001	RIO-S8001-1	4	23	BBS474ZB	SC HV RECC VLV 7 CLS		3 5B		2 3.4						
15	5	CP-S8001	RIO-S8001-1	4	24	BBS474ZD	SC HV RECC VLV 7 OPN		3 5B		2 5.6						
15	5	CP-S8001	RIO-S8001-1	4	25	BBS475YS	SC HV FLSH VLV 7 C-H		3 5B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	4	26	BBS478YS	SC15 SC TRH VLV C-H		3 6B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	4	27	BBS478ZB	ZB LMT SW BDG TVL		3 6B		4 7.8						
15	5	CP-S8001	RIO-S8001-1	4	28	BBS479YS	SC17 SC TRH VLV C-H		3 6B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	4	29	BBS479ZB	ZB LMT SW BDG TVL		3 6B		3 5.6						
15	5	CP-S8001	RIO-S8001-1	4	30	BBS481MM	SP8 SCUM PUMP RN		3 6B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	4	31	BBS481PH	SP8 SCUM PUMP PRES		3 6B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	5	0	BBS481QF	SP8 SCUM PUMP FAIL		3 6B		1 5.6						
15	5	CP-S8001	RIO-S8001-1	5	1	BBS481YS	SP8 SCUM PUMP C-H		3 6B		1 7.8						
15	5	CP-S8001	RIO-S8001-1	5	2	BBS483YS	SC HV DSCH VLV 8 C-H		3 6B		2 1.2						
15	5	CP-S8001	RIO-S8001-1	5	3	BBS483ZB	SC HV DSCH VLV 8 CLS		3 6B		2 3.4						
15	5	CP-S8001	RIO-S8001-1	5	4	BBS483ZD	SC HV DSCH VLV 8 OPN		3 6B		2 5.6						
15	5	CP-S8001	RIO-S8001-1	5	5	BBS484YS	SC RECC VLV C-H		3 6B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	5	6	BBS484ZB	SC RECC VLV CLS		3 7B		4 1.2						
15	5	CP-S8001	RIO-S8001-1	5	7	BBS484ZD	SC RECC VLV OPN		3 7B		4 3.4						
15	5	CP-S8001	RIO-S8001-1	5	8	BBS485YS	SC HV FLSH VLV 8 C-H		3 7B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	5	9	BBS488YS	SC19 SC TRH VLV C-H		3 7B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	5	10	BBS488ZB	ZB LMT SW BDG TVL		3 7B		3 5.6						
15	5	CP-S8001	RIO-S8001-1	5	11	BBS489YS	SC21 SC TRH VLV C-H		3 7B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	5	12	BBS489ZB	ZB LMT SW BDG TVL		3 7B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	5	13	BBS491MM	SP9 SCUM PUMP RN		3 7B		1 7.8						
15	5	CP-S8001	RIO-S8001-1	5	14	BBS491PH	SP9 SCUM PUMP PRES		3 7B		2 1.2						
15	5	CP-S8001	RIO-S8001-1	5	15	BBS491QF	SP9 SCUM PUMP FAIL		3 7B		2 3.4						
15	5	CP-S8001	RIO-S8001-1	5	16	BBS491YS	SP9 SC PUMP C-H		3 7B		2 5.6						
15	5	CP-S8001	RIO-S8001-1	5	17	BBS493YS	SC DSCH VLV C-H		3 7B		2 7.8						
15	5	CP-S8001	RIO-S8001-1	5	18	BBS493ZB	SC DSCH VLV CLS		3 8B		4 1.2						
15	5	CP-S8001	RIO-S8001-1	5	19	BBS493ZD	SC DSCH VLV OPN		3 8B		4 3.4						
15	5	CP-S8001	RIO-S8001-1	5	20	BBS494YS	SC HV RECC VLV 9 C-H		3 8B		4 5.6						
15	5	CP-S8001	RIO-S8001-1	5	21	BBS494ZB	SC HV RECC VLV 9 CLS		3 8B		4 7.8						
15	5	CP-S8001	RIO-S8001-1	5	22	BBS494ZD	SC HV RECC VLV 9 OPN		3 8B		3 1.2						
15	5	CP-S8001	RIO-S8001-1	5	23	BBS495YS	SC HV FLSH VLV 9 C-H		3 8B		3 3.4						
15	5	CP-S8001	RIO-S8001-1	5	24	BBS498YS	SC23 SC TRH VLV C-H		3 8B		1 1.2						
15	5	CP-S8001	RIO-S8001-1	5	25	BBS498ZB	ZB LMT SW BDG TVL		3 8B		1 3.4						
15	5	CP-S8001	RIO-S8001-1	5	26	BBS499YS	SC25 SC TRH VLV C-H		3 8B		1 7.8						
15	5	CP-S8001	RIO-S8001-1	5	27	BBS499ZB	ZB LMT SW BDG TVL		3 8B		2 1.2						
15	5	CP-S8001	RIO-S8001-1	5	28	BBS535QA	SEC UPS ALARM		3 8B		2 5.6						
15	5	CP-S8001	RIO-S8001-1	5	29	BBS622PH	CTL RM HI PRES		3 8B		2 7.8						
17	3	CP-S8001	RIO-S8001-1	5	30	BCR810YS	REACTOR 1A RAS VLV COMP-HAND		5 2B		3 1.2						
17	3	CP-S8001	RIO-S8001-1	5	31	BCR815YS	REACTOR 1B RAS VLV COMP-HAND		5 2B		3 3.4						
17	3	CP-S8001	RIO-S8001-1	6	0	BCR820YS	REACTOR 2A RAS VLV COMP-HAND		5 2B		3 5.6						
17	3	CP-S8001	RIO-S8001-1	6	1	BCR825YS	REACTOR 2B RAS VLV COMP-HAND		5 2B		3 7.8						
17	3	CP-S8001	RIO-S8001-1	6	2	BCR830YS	REACTOR 3A RAS VLV COMP-HAND		5 2B		1 1.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	3	CP-S8001	RIO-S8001-1	6	3	BCR835YS	REACTOR 3B RAS VLV COMP-HAND	5	2B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	6	4		SUMP 4 SUMP PUMP STAT	5	2B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	6	5	BCS538PS	PS FNRM DIFF	5	3B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	6	6	BCS617MM	FN1 EXH FN RUN	5	3B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	6	7	BCS617QF	FN1 EXH FAN FAIL	5	3B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	6	8	BCS617YS	FN1 EXH FAN C-H	5	3B		1	7.8					
17	3	CP-S8001	RIO-S8001-1	6	9	BCS618MM	FN2 EXH FN RUN	5	3B		2	1.2					
17	3	CP-S8001	RIO-S8001-1	6	10	BCS618QF	FN2 EXH FAN FAIL	5	3B		2	3.4					
17	3	CP-S8001	RIO-S8001-1	6	11	BCS618YS	FN2 EXH FAN C-H	5	3B		2	5.6					
17	3	CP-S8001	RIO-S8001-1	6	12	BCS619MM	FN3 EXH FN RUN	5	3B		2	7.8					
17	3	CP-S8001	RIO-S8001-1	6	13	BCS619QF	FN3 EXH FAN FAIL	5	4B		4	1.2					
17	3	CP-S8001	RIO-S8001-1	6	14	BCS619YS	FN3 EXH FAN C-H	5	4B		4	3.4					
17	3	CP-S8001	RIO-S8001-1	6	15	BCS620MM	FN4 EXH FN RUN	5	4B		4	5.6					
17	3	CP-S8001	RIO-S8001-1	6	16	BCS620QF	FN4 EXH FAN FAIL	5	4B		4	7.8					
17	3	CP-S8001	RIO-S8001-1	6	17	BCS620YS	FN4 EXH FAN C-H	5	4B		3	1.2					
17	3	CP-S8001	RIO-S8001-1	6	18	BCS621MM	FN5 EXH FN RUN	5	4B		3	3.4					
17	3	CP-S8001	RIO-S8001-1	6	19	BCS621QF	FN5 EXH FAN FAIL	5	4B		3	5.6					
17	3	CP-S8001	RIO-S8001-1	6	20	BCS621YS	FN5 EXH FAN C-H	5	4B		3	7.8					
17	3	CP-S8001	RIO-S8001-1	6	21	BCS634MM	AB1 AIR BLOWER RN	5	4B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	6	22	BCS634QF	AB1 AIR BLOWER FAIL	5	4B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	6	23	BCS634YS	AB1 AIR BLOWER C-H	5	4B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	6	24	BCS635MM	AB2 AIR BLOWER RN	5	4B		1	7.8					
17	3	CP-S8001	RIO-S8001-1	6	25	BCS635QF	AB2 AIR BLOWER FAIL	5	4B		2	1.2					
17	3	CP-S8001	RIO-S8001-1	6	26	BCS635YS	AB2 AIR BLOWER C-H	5	4B		2	3.4					
17	3	CP-S8001	RIO-S8001-1	6	27	BCS636MM	AC1 AIR COMP RN	5	4B		2	5.6					
17	3	CP-S8001	RIO-S8001-1	6	28	BCS637MM	AC2 AIR COMP RN	5	4B		2	7.8					
17	3	CP-S8001	RIO-S8001-1	6	29	BCS637QF	AC1-2 INST AIR PRES	5	5B		4	1.2					
17	3	CP-S8001	RIO-S8001-1	6	30	BCS643QF	SMP1 SUMP PUMP FAIL	5	5B		4	3.4					
17	3	CP-S8001	RIO-S8001-1	6	31	BCS644QF	SMP2 SUMP PUMP FAIL	5	5B		4	5.6					
17	3	CP-S8001	RIO-S8001-1	7	0	BCS645MM	EF35 PRES FAN RUN	5	5B		4	7.8					
17	3	CP-S8001	RIO-S8001-1	7	1	BCS645QF	EF35 PRES FAN FAIL	5	5B		3	1.2					
17	3	CP-S8001	RIO-S8001-1	7	2	BCS674QF	SMP3 SUMP PUMP FAIL	5	5B		3	3.4					
17	3	CP-S8001	RIO-S8001-1	7	3	BCS701MF	SC11 COLL MTR FAIL	5	5B		3	5.6					
17	3	CP-S8001	RIO-S8001-1	7	4	BCS701MM	SC11 COLL MTR FAIL	5	5B		3	7.8					
17	3	CP-S8001	RIO-S8001-1	7	5	BCS701QA	SC11 COLL DRV TROUBLE	5	5B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	7	6	BCS701QF	SC11 COLL DRV FAIL	5	5B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	7	7	BCS701YS	SC11 COLL DRV C-H	5	5B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	7	8	BCS702MF	SC12 COLL MTR FAIL	5	5B		1	7.8					
17	3	CP-S8001	RIO-S8001-1	7	9	BCS702MM	SC12 COLL DRV RUN	5	5B		2	1.2					
17	3	CP-S8001	RIO-S8001-1	7	10	BCS702QA	SC12 COLL DRV TROUBLE	5	5B		2	3.4					
17	3	CP-S8001	RIO-S8001-1	7	11	BCS702QF	SC12 COLL DRV FAIL	5	5B		2	5.6					
17	3	CP-S8001	RIO-S8001-1	7	12	BCS702YS	SC12 COLL DRV C-H	5	5B		2	7.8					
17	3	CP-S8001	RIO-S8001-1	7	13	BCS703MF	SC13 COLL MTR FAIL	5	6B		4	1.2					
17	3	CP-S8001	RIO-S8001-1	7	14	BCS703MM	SC13 COLL DRV RUN	5	6B		4	3.4					
17	3	CP-S8001	RIO-S8001-1	7	15	BCS703QA	SC13 COLL DRV TROUBLE	5	6B		4	5.6					
17	3	CP-S8001	RIO-S8001-1	7	16	BCS703QF	SC13 COLL DRV FAIL	5	6B		4	7.8					
17	3	CP-S8001	RIO-S8001-1	7	17	BCS703YS	SC13 COLL DRV C-H	5	6B		3	1.2					
17	3	CP-S8001	RIO-S8001-1	7	18	BCS704MF	SC14 COLL MTR FAIL	5	6B		3	3.4					
17	3	CP-S8001	RIO-S8001-1	7	19	BCS704MM	SC14 COLL DRV RUN	5	6B		3	5.6					
17	3	CP-S8001	RIO-S8001-1	7	20	BCS704QA	SC14 COLL DRV TROUBLE	5	6B		3	7.8					
17	3	CP-S8001	RIO-S8001-1	7	21	BCS704QF	SC14 COLL DRV FAIL	5	6B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	7	22	BCS704YS	SC14 COLL DRV C-H	5	6B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	7	23	BCS801ZB	REACTOR ISO VALVE 1-3 CLS	5	7B		4	5.6					
17	3	CP-S8001	RIO-S8001-1	7	24	BCS801ZD	REACTOR ISO VALVE 1-3 OPN	5	7B		4	7.8					
17	3	CP-S8001	RIO-S8001-1	7	25	BCS802ZB	REACTOR ISO VALVE 1-2 CLS	5	7B		3	1.2					
17	3	CP-S8001	RIO-S8001-1	7	26	BCS802ZD	REACTOR ISO VALVE 1-2 OPN	5	7B		3	3.4					
17	3	CP-S8001	RIO-S8001-1	7	27	BCS803ZB	REACTOR ISO VALVE 2-3 CLS	5	7B		3	5.6					
17	3	CP-S8001	RIO-S8001-1	7	28	BCS803ZD	REACTOR ISO VALVE 2-3 OPN	5	7B		3	7.8					
17	3	CP-S8001	RIO-S8001-1	7	29	BCS911MM	RAP11 SL PUMP RUN	5	7B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	7	30	BCS911QF	RAP11 SL PUMP RUN	5	7B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	7	31	BCS911YS	RAP11 SL PUMP C-H	5	7B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	8	0	BCS912MM	RAP12 SL PUMP RUN	5	7B		1	7.8					
17	3	CP-S8001	RIO-S8001-1	8	1	BCS912QF	RAP12 SL PUMP FAIL	5	7B		2	1.2					
17	3	CP-S8001	RIO-S8001-1	8	2	BCS912YS	RAP12 SL PUMP C-H	5	7B		2	3.4					
17	3	CP-S8001	RIO-S8001-1	8	3	BCS913MM	RAP13 SL PUMP RUN	5	7B		2	5.6					
17	3	CP-S8001	RIO-S8001-1	8	4	BCS913QF	RAP13 SL PUMP FAIL	5	7B		2	7.8					
17	3	CP-S8001	RIO-S8001-1	8	5	BCS913YS	RAP13 SL PUMP C-H	5	8B		4	1.2					
17	3	CP-S8001	RIO-S8001-1	8	6	BCS914MM	RAP14 SL PUMP RUN	5	8B		4	3.4					
17	3	CP-S8001	RIO-S8001-1	8	7	BCS914QF	RAP14 SL PUMP FAIL	5	8B		4	5.6					
17	3	CP-S8001	RIO-S8001-1	8	8	BCS914YS	RAP14 SL PUMP C-H	5	8B		4	7.8					
17	3	CP-S8001	RIO-S8001-1	8	9	BCS915MM	RAP15 SL PUMP RUN	5	8B		3	1.2					
17	3	CP-S8001	RIO-S8001-1	8	10	BCS915QF	RAP15 SL PUMP FAIL	5	8B		3	3.4					
17	3	CP-S8001	RIO-S8001-1	8	11	BCS915YS	RAP15 SL PUMP C-H	5	8B		3	5.6					
17	3	CP-S8001	RIO-S8001-1	8	12	BCS916MM	RAP16 SL PUMP RUN	5	8B		3	7.8					
17	3	CP-S8001	RIO-S8001-1	8	13	BCS916QF	RAP16 SL PUMP FAIL	5	8B		1	1.2					
17	3	CP-S8001	RIO-S8001-1	8	14	BCS916YS	RAP16 SL PUMP C-H	5	8B		1	3.4					
17	3	CP-S8001	RIO-S8001-1	8	15	BCS917MM	RAP17 SL PUMP RUN	5	8B		1	5.6					
17	3	CP-S8001	RIO-S8001-1	8	16	BCS917QF	RAP17 SL PUMP FAIL	5	8B		1	7.8					
17	3	CP-S8001	RIO-S8001-1	8	17	BCS917YS	RAP17 SL PUMP C-H	5	8B		2	1.2					
17	3	CP-S8001	RIO-S8001-1	8	18	BCS918MM	RAP18 SL PUMP RUN	5	8B		2	3.4					
17	3	CP-S8001	RIO-S8001-1	8	19	BCS918QF	RAP18 SL PUMP FAIL	5	8B		2	5.6					

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	3	CP-S8001	RIO-S8001-1	8	20	BCS918YS	RAP18 SL PUMP C-H		5 8B		2 7.8						
17	5	CP-S8001	RIO-S8001-1	8	21	BDS411MM	SP1 SC PUMP RN		7 3B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	8	22	BDS411PH	SP1 SCUM PUMP PRES		7 3B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	8	23	BDS411QF	SP1 SCUM PUMP FAIL		7 3B		4 5.6						
17	5	CP-S8001	RIO-S8001-1	8	24	BDS411YS	SP1 SCUM PUMP C-H		7 3B		4 7.8						
17	5	CP-S8001	RIO-S8001-1	8	25	BDS413YS	SC HV DSCH VLV 1 C-H		7 3B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	8	26	BDS413ZB	SC DSCH VLV CLS		7 3B		3 3.4						
17	5	CP-S8001	RIO-S8001-1	8	27	BDS413ZD	SC DSCH VLV OPN		7 3B		3 5.6						
17	5	CP-S8001	RIO-S8001-1	8	28	BDS414YS	SC HV RECC VLV 1 C-H		7 3B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	8	29	BDS414ZB	SC RECC VLV CLS		7 3B		1 1.2						
17	5	CP-S8001	RIO-S8001-1	8	30	BDS414ZD	SC RECC VLV OPN		7 3B		1 3.4						
17	5	CP-S8001	RIO-S8001-1	8	31	BDS415YS	SC HV FLSH VLV 1 C-H		7 3B		1 5.6						
17	5	CP-S8001	RIO-S8001-1	9	0	BDS421MM	SP2 SC PUMP RN		7 3B		2 3.4						
17	5	CP-S8001	RIO-S8001-1	9	1	BDS421PH	SP2 SCUM PUMP PRES		7 3B		2 5.6						
17	5	CP-S8001	RIO-S8001-1	9	2	BDS421QF	SP2 SCUM PUMP FAIL		7 3B		2 7.8						
17	5	CP-S8001	RIO-S8001-1	9	3	BDS421YS	SP2 SCUM PUMP C-H		7 4B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	9	4	BDS423YS	SC HV DSCH VLV 2 C-H		7 4B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	9	5	BDS423ZB	SC DSCH VLV CLS		7 4B		4 5.6						
17	5	CP-S8001	RIO-S8001-1	9	6	BDS423ZD	SC DSCH VLV OPN		7 4B		4 7.8						
17	5	CP-S8001	RIO-S8001-1	9	7	BDS424YS	SC HV RECC VLV 2 C-H		7 4B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	9	8	BDS424ZB	SC RECC VLV CLS		7 4B		3 3.4						
17	5	CP-S8001	RIO-S8001-1	9	9	BDS424ZD	SC RECC VLV OPN		7 4B		3 5.6						
17	5	CP-S8001	RIO-S8001-1	9	10	BDS425YS	SC HV FLSH VLV 2 C-H		7 4B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	9	11	BDS431MM	SP3 SC PUMP RN		7 4B		1 5.6						
17	5	CP-S8001	RIO-S8001-1	9	12	BDS431PH	SP3 SCUM PUMP PRES		7 4B		1 7.8						
17	5	CP-S8001	RIO-S8001-1	9	13	BDS431QF	SP3 SCUM PUMP FAIL		7 4B		2 1.2						
17	5	CP-S8001	RIO-S8001-1	9	14	BDS431YS	SP3 SCUM PUMP C-H		7 4B		2 3.4						
17	5	CP-S8001	RIO-S8001-1	9	15	BDS433YS	SC HV DSCH VLV 3 C-H		7 4B		2 5.6						
17	5	CP-S8001	RIO-S8001-1	9	16	BDS433ZB	SC DSCH VLV CLS		7 4B		2 7.8						
17	5	CP-S8001	RIO-S8001-1	9	17	BDS433ZD	SC DSCH VLV OPN		7 5B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	9	18	BDS434YS	SC HV RECC VLV 3 C-H		7 5B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	9	19	BDS434ZB	SC RECC VLV CLS		7 5B		4 5.6						
17	5	CP-S8001	RIO-S8001-1	9	20	BDS434ZD	SC RECC VLV OPN		7 5B		4 7.8						
17	5	CP-S8001	RIO-S8001-1	9	21	BDS435YS	SC HV FLSH VLV 3 C-H		7 5B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	9	22	BDS441MM	SP4 SC PUMP RN		7 5B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	9	23	BDS441PH	SP4 SCUM PUMP PRES		7 5B		1 1.2						
17	5	CP-S8001	RIO-S8001-1	9	24	BDS441QF	SP4 SCUM PUMP FAIL		7 5B		1 3.4						
17	5	CP-S8001	RIO-S8001-1	9	25	BDS441YS	SP4 SCUM PUMP C-H		7 5B		1 5.6						
17	5	CP-S8001	RIO-S8001-1	9	26	BDS443YS	SC HV DSCH VLV 4 C-H		7 5B		1 7.8						
17	5	CP-S8001	RIO-S8001-1	9	27	BDS443ZB	SC DSCH VLV CLS		7 5B		2 1.2						
17	5	CP-S8001	RIO-S8001-1	9	28	BDS443ZD	SC DSCH VLV OPN		7 5B		2 3.4						
17	5	CP-S8001	RIO-S8001-1	9	29	BDS444YS	SC HV RECC VLV 4 C-H		7 5B		2 5.6						
17	5	CP-S8001	RIO-S8001-1	9	30	BDS444ZB	SC RECC VLV CLS		7 5B		2 7.8						
17	5	CP-S8001	RIO-S8001-1	9	31	BDS444ZD	SC RECC VLV OPN		7 6B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	10	0	BDS445YS	SC HV FLSH VLV 4 C-H		7 6B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	10	1	BDS451MM	SP5 SC PUMP RN		7 6B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	10	2	BDS451PH	SP5 SCUM PUMP PRES		7 6B		3 3.4						
17	5	CP-S8001	RIO-S8001-1	10	3	BDS451QF	SP5 SCUM PUMP FAIL		7 6B		3 5.6						
17	5	CP-S8001	RIO-S8001-1	10	4	BDS451YS	SP5 SCUM PUMP C-H		7 6B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	10	5	BDS453YS	SC HV DSCH VLV 5 C-H		7 6B		1 1.2						
17	5	CP-S8001	RIO-S8001-1	10	6	BDS453ZB	SC DSCH VLV CLS		7 6B		1 3.4						
17	5	CP-S8001	RIO-S8001-1	10	7	BDS453ZD	SC DSCH VLV OPN		7 6B		1 5.6						
17	5	CP-S8001	RIO-S8001-1	10	8	BDS454YS	SC HV RECC VLV 5 C-H		7 6B		1 7.8						
17	5	CP-S8001	RIO-S8001-1	10	9	BDS454ZB	SC RECC VLV CLS		7 6B		2 1.2						
17	5	CP-S8001	RIO-S8001-1	10	10	BDS454ZD	SC RECC VLV OPN		7 6B		2 3.4						
17	5	CP-S8001	RIO-S8001-1	10	11	BDS455YS	SC HV FLSH VLV 5 C-H		7 6B		2 5.6						
17	5	CP-S8001	RIO-S8001-1	10	12	BDS520TH	TS RAS GAL TEMP		7 7B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	10	13	BDS521TH	TS FAN RM HI TEMP		7 7B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	10	14	BDS522TH	TS ELEC RM TEMP		7 7B		4 5.6						
17	5	CP-S8001	RIO-S8001-1	10	15	BDS523XA	XS CTL RM SMK ALM		7 7B		4 7.8						
17	5	CP-S8001	RIO-S8001-1	10	16	BDS536TH	MCC1S TRANSF HI TEMP		7 7B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	10	17	BDS537TH	MCC2S TRANSF HI TEMP		7 7B		3 3.4						
17	5	CP-S8001	RIO-S8001-1	10	18	BDS601QF	AF1 EXH FAN FAIL		7 7B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	10	19	BDS602QF	AF5 EXH FAN FAIL		7 7B		1 1.2						
17	5	CP-S8001	RIO-S8001-1	10	20	BDS603QF	AF6 EXH FAN FAIL		7 7B		1 3.4						
17	5	CP-S8001	RIO-S8001-1	10	21	BDS604MM	AF9 AHU Status		7 7B		1 5.6						
17	5	CP-S8001	RIO-S8001-1	10	22	BDS604QF	AF9 VENT FAN FAIL		7 7B		1 7.8						
17	5	CP-S8001	RIO-S8001-1	10	23	BDS604YS	AF9 VENT FAN C-H		7 7B		2 1.2						
17	5	CP-S8001	RIO-S8001-1	10	24	BDS605MM	Secondary AHU AF10 Fan Status		7 7B		2 3.4						
17	5	CP-S8001	RIO-S8001-1	10	25	BDS605QF	AF10 VENT FAN FAIL		7 7B		2 5.6						
17	5	CP-S8001	RIO-S8001-1	10	26	BDS605YS	AF10 VENT FAN C-H		7 7B		2 7.8						
17	5	CP-S8001	RIO-S8001-1	10	27	BDS606MM	AF12 AIR HANDL RUN		7 8B		4 1.2						
17	5	CP-S8001	RIO-S8001-1	10	28	BDS606QF	AF12 AIR HANDL FAIL		7 8B		4 3.4						
17	5	CP-S8001	RIO-S8001-1	10	29	BDS606YS	AF12 AIR HANDL C-H		7 8B		4 5.6						
17	5	CP-S8001	RIO-S8001-1	10	30	BDS607MM	AF14 AIR HANDL RUN		7 8B		4 7.8						
17	5	CP-S8001	RIO-S8001-1	10	31	BDS607QF	AF14 AIR HANDL FAIL		7 8B		3 1.2						
17	5	CP-S8001	RIO-S8001-1	11	0	BDS607YS	AF14 AIR HANDL C-H		7 8B		3 3.4						
17	5	CP-S8001	RIO-S8001-1	11	1	BDS608MM	AF16 AIR HANDL RUN		7 8B		3 5.6						
17	5	CP-S8001	RIO-S8001-1	11	2	BDS608QF	AF16 AIR HANDL FAIL		7 8B		3 7.8						
17	5	CP-S8001	RIO-S8001-1	11	3	BDS608YS	AF16 AIR HANDL C-H		7 8B		1 1.2						
17	5	CP-S8001	RIO-S8001-1	11	4	BDS609MM	AF18 AIR HANDL RUN		7 8B		1 3.4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	5	CP-S8001	RIO-S8001-1	11	5	BDS609QF	AF18 AIR HANDL FAIL	7	8B		1.5.6						
17	5	CP-S8001	RIO-S8001-1	11	6	BDS609YS	AF18 AIR HANDL C-H	7	8B		1.7.8						
17	5	CP-S8001	RIO-S8001-1	11	7	BDS610QF	AF19 VENT FAN FAIL	7	8B		2.1.2						
17	5	CP-S8001	RIO-S8001-1	11	8	BDS611QF	AF26 VENT FAN FAIL	7	8B		2.3.4						
17	5	CP-S8001	RIO-S8001-1	11	9	BDS612QF	AF27 AC UNIT FAILED	7	8B		2.5.6						
17	5	CP-S8001	RIO-S8001-1	11	10	BDS613QF	AF30 AC UNIT FAIL	7	8B		2.7.8						
17	5	CP-S8001	RIO-S8001-1	11	11	BDS614QF	AF31 AC UNIT FAIL	7	9B		4.1.2						
17	5	CP-S8001	RIO-S8001-1	11	12	BDS615MM	AF33 EXH FAN RUN	7	9B		4.3.4						
17	5	CP-S8001	RIO-S8001-1	11	13	BDS616MM	AF34 EXH FAN RUN	7	9B		4.5.6						
17	5	CP-S8001	RIO-S8001-1	11	14	BDS616QF	FN RM EXH FAN FAIL	7	9B		4.7.8						
17	5	CP-S8001	RIO-S8001-1	11	15	BDS623MM	CP12A HW CIRC PUMP RN	7	9B		1.3.4						
17	5	CP-S8001	RIO-S8001-1	11	16	BDS624MM	CP14A HW CIRC PUMP RN	7	9B		1.5.6						
17	5	CP-S8001	RIO-S8001-1	11	17	BDS625MM	CP16A HW CIRC PUMP RN	7	9B		1.7.8						
17	5	CP-S8001	RIO-S8001-1	11	18	BDS626MM	CP18A HW CIRC PUMP RN	7	9B		2.1.2						
17	5	CP-S8001	RIO-S8001-1	11	19	BDS627MM	CP12B GLY PUMP RUN	7	9B		2.3.4						
17	5	CP-S8001	RIO-S8001-1	11	20	BDS628MM	CP14B GLY PUMP RUN	7	9B		2.5.6						
17	5	CP-S8001	RIO-S8001-1	11	21	BDS629MM	CP16B GLY PUMP RUN	7	9B		2.7.8						
17	5	CP-S8001	RIO-S8001-1	11	22	BDS630MM	CP18B GLY PUMP RUN	7	9C		4.1.2						
17	5	CP-S8001	RIO-S8001-1	11	23	BDS631MM	PU3 GLY PUMP RUN	7	9C		4.3.4						
17	5	CP-S8001	RIO-S8001-1	11	24	BDS632MM	PU4 GLY PUMP RUN	7	9C		4.5.6						
17	5	CP-S8001	RIO-S8001-1	11	25	BDS638QF	AP36 FAN PP FAIL	7	9C		4.7.8						
17	5	CP-S8001	RIO-S8001-1	11	26	BDS639QF	AP37 FAN PP FAIL	7	9C		3.1.2						
17	5	CP-S8001	RIO-S8001-1	11	27	BDS640QF	AP38 REGEN PUMP FAIL	7	9C		3.3.4						
17	5	CP-S8001	RIO-S8001-1	11	28	BDS641QF	AP39 REGEN PUMP FAIL	7	9C		3.5.6						
17	5	CP-S8001	RIO-S8001-1	11	29	BDS646MM	AP26 SEAL WTR PP RUN	7	9C		1.1.2						
17	5	CP-S8001	RIO-S8001-1	11	30	BDS647MM	AP27 SEAL WTR PP RUN	7	9C		1.3.4						
17	5	CP-S8001	RIO-S8001-1	11	31	BDS681XS	XS CTL RM DOOR ALM	7	9C		1.7.8						
17	5	CP-S8001	RIO-S8001-2	1	0	BDS705MF	SC15 COLL MTR FAIL	7	9C		2.1.2						
17	5	CP-S8001	RIO-S8001-2	1	1	BDS705MM	SC15 COLL DRV RUN	7	9C		2.3.4						
17	5	CP-S8001	RIO-S8001-2	1	2	BDS705QA	SC15 COLL DRV TROUBLE	7	9C		2.5.6						
17	5	CP-S8001	RIO-S8001-2	1	3	BDS705QF	SC15 COLL DRV FAIL	7	9C		2.7.8						
17	5	CP-S8001	RIO-S8001-2	1	4	BDS705YS	SC15 COLL DRV C-H	7	10B		4.1.2						
17	5	CP-S8001	RIO-S8001-2	1	5	BDS706MF	SC16 COLL MTR FAIL	7	10B		4.3.4						
17	5	CP-S8001	RIO-S8001-2	1	6	BDS706MM	SC16 COLL DRV RUN	7	10B		4.5.6						
17	5	CP-S8001	RIO-S8001-2	1	7	BDS706QA	SC16 COLL DRV TROUBLE	7	10B		4.7.8						
17	5	CP-S8001	RIO-S8001-2	1	8	BDS706QF	SC16 COLL DRV FAIL	7	10B		3.1.2						
17	5	CP-S8001	RIO-S8001-2	1	9	BDS706YS	SC16 COLL DRV C-H	7	10B		3.3.4						
17	5	CP-S8001	RIO-S8001-2	1	10	BDS707MF	SC17 COLL MTR FAIL	7	10B		3.5.6						
17	5	CP-S8001	RIO-S8001-2	1	11	BDS707MM	SC17 COLL DRV RUN	7	10B		3.7.8						
17	5	CP-S8001	RIO-S8001-2	1	12	BDS707QA	SC17 COLL DRV TROUBLE	7	10B		1.1.2						
17	5	CP-S8001	RIO-S8001-2	1	13	BDS707QF	SC17 COLL DRV FAIL	7	10B		1.3.4						
17	5	CP-S8001	RIO-S8001-2	1	14	BDS707YS	SC17 COLL DRV C-H	7	10B		1.5.6						
17	5	CP-S8001	RIO-S8001-2	1	15	BDS708MF	SC18 COLL MTR FAIL	7	10B		1.7.8						
17	5	CP-S8001	RIO-S8001-2	1	16	BDS708MM	SC18 COLL DRV RUN	7	10B		2.1.2						
17	5	CP-S8001	RIO-S8001-2	1	17	BDS708QA	SC18 COLL DRV TROUBLE	7	10B		2.3.4						
17	5	CP-S8001	RIO-S8001-2	1	18	BDS708QF	SC18 COLL DRV FAIL	7	10B		2.5.6						
17	5	CP-S8001	RIO-S8001-2	1	19	BDS708YS	SC18 COLL DRV C-H	7	10B		2.7.8						
17	5	CP-S8001	RIO-S8001-2	1	20	BDS919MM	RAP19 SL PUMP RUN	7	10C		1.1.2						
17	5	CP-S8001	RIO-S8001-2	1	21	BDS919QF	RAP19 SL PUMP FAIL	7	10C		1.3.4						
17	5	CP-S8001	RIO-S8001-2	1	22	BDS919YS	RAP19 SL PUMP C-H	7	10C		1.5.6						
17	5	CP-S8001	RIO-S8001-2	1	23	BDS920MM	RAP20 SL PUMP RUN	7	10C		1.7.8						
17	5	CP-S8001	RIO-S8001-2	1	24	BDS920QF	RAP20 SL PUMP FAIL	7	10C		2.1.2						
17	5	CP-S8001	RIO-S8001-2	1	25	BDS920YS	RAP20 SL PUMP C-H	7	10C		2.3.4						
17	5	CP-S8001	RIO-S8001-2	1	26	BDS921MM	RAP21 SL PUMP RUN	7	10C		2.5.6						
17	5	CP-S8001	RIO-S8001-2	1	27	BDS921QF	RAP21 SL PUMP FAIL	7	10C		2.7.8						
17	5	CP-S8001	RIO-S8001-2	1	28	BDS921YS	RAP21 SL PUMP C-H	7	10A		4.1.2						
17	5	CP-S8001	RIO-S8001-2	1	29	BDS922MM	RAP22 SL PUMP RUN	7	10A		4.3.4						
17	5	CP-S8001	RIO-S8001-2	1	30	BDS922QF	RAP22 SL PUMP FAIL	7	10A		4.5.6						
17	5	CP-S8001	RIO-S8001-2	1	31	BDS922YS	RAP22 SL PUMP C-H	7	10A		4.7.8						
17	5	CP-S8001	RIO-S8001-2	2	0	BDS923MM	RAP23 SL PUMP RUN	7	10A		3.1.2						
17	5	CP-S8001	RIO-S8001-2	2	1	BDS923QF	RAP23 SL PUMP FAIL	7	10A		3.3.4						
17	5	CP-S8001	RIO-S8001-2	2	2	BDS923YS	RAP23 SL PUMP C-H	7	10A		3.5.6						
17	5	CP-S8001	RIO-S8001-2	2	3	BDS924MM	RAP24 SL PUMP RUN	7	10A		3.7.8						
17	5	CP-S8001	RIO-S8001-2	2	4	BDS924QF	RAP24 SL PUMP FAIL	7	10A		1.1.2						
17	5	CP-S8001	RIO-S8001-2	2	5	BDS924YS	RAP24 SL PUMP C-H	7	10A		1.3.4						
17	5	CP-S8001	RIO-S8001-2	2	6	BDS925MM	RAP25 SL PUMP RUN	7	10A		1.5.6						
17	5	CP-S8001	RIO-S8001-2	2	7	BDS925QF	RAP25 SL PUMP FAIL	7	10A		1.7.8						
17	5	CP-S8001	RIO-S8001-2	2	8	BDS925YS	RAP25 SL PUMP C-H	7	10A		2.1.2						
17	5	CP-S8001	RIO-S8001-2	2	9	BDS926MM	RAP26 SL PUMP RUN	7	10A		2.3.4						
17	5	CP-S8001	RIO-S8001-2	2	10	BDS926QF	RAP26 SL PUMP FAIL	7	10A		2.5.6						
17	5	CP-S8001	RIO-S8001-2	2	11	BDS926YS	RAP26 SL PUMP C-H	7	10A		2.7.8						
15	3	CP-S8001	RIO-S8001-2	2	12		SPARE	1	2B		4.1.2						
15	3	CP-S8001	RIO-S8001-2	2	13		SPARE	1	2B		4.3.4						
15	3	CP-S8001	RIO-S8001-2	2	14		SPARE	1	2B		4.5.6						
15	3	CP-S8001	RIO-S8001-2	2	15		SPARE	1	2B		4.7.8						
15	3	CP-S8001	RIO-S8001-2	2	16		SPARE	1	2B		3.1.2						
15	3	CP-S8001	RIO-S8001-2	2	17		SPARE	1	2B		3.3.4						
15	3	CP-S8001	RIO-S8001-2	2	18		SPARE	1	2B		3.5.6						
15	3	CP-S8001	RIO-S8001-2	2	19		SPARE	1	2B		3.7.8						
15	3	CP-S8001	RIO-S8001-2	2	20		SPARE	1	2B		1.1.2						
15	3	CP-S8001	RIO-S8001-2	2	21		SPARE	1	2B		1.3.4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	3	CP-S8001	RIO-S8001-2	2	22		SPARE	1 2B			1 5.6						
15	3	CP-S8001	RIO-S8001-2	2	23		SPARE	1 2B			1 7.8						
15	3	CP-S8001	RIO-S8001-2	2	24		SPARE	1 2B			2 1.2						
15	3	CP-S8001	RIO-S8001-2	2	25		SPARE	1 2B			2 3.4						
15	3	CP-S8001	RIO-S8001-2	2	26		SPARE	1 2B			2 5.6						
15	3	CP-S8001	RIO-S8001-2	2	27		SPARE	1 2B			2 7.8						
15	3	CP-S8001	RIO-S8001-2	2	28		SPARE	1 3B			4 1.2						
15	3	CP-S8001	RIO-S8001-2	2	29		SPARE	1 3B			4 3.4						
15	3	CP-S8001	RIO-S8001-2	2	30		SPARE	1 3B			4 5.6						
15	3	CP-S8001	RIO-S8001-2	2	31		SPARE	1 3B			4 7.8						
15	3						SPARE - NOT MIGRATED	1 3B			3 1.2						
15	3						SPARE - NOT MIGRATED	1 3B			3 3.4						
15	3						SPARE - NOT MIGRATED	1 3B			3 5.6						
15	3						SPARE - NOT MIGRATED	1 3B			3 7.8						
15	3						SPARE - NOT MIGRATED	1 5B			1 3.4						
15	3						SPARE - NOT MIGRATED	1 5B			1 5.6						
15	3						SPARE - NOT MIGRATED	1 5B			2 5.6						
15	3						SPARE - NOT MIGRATED	1 5B			2 7.8						
15	3						SPARE - NOT MIGRATED	1 6B			4 7.8						
15	3						SPARE - NOT MIGRATED	1 6B			3 1.2						
15	3						SPARE - NOT MIGRATED	1 6B			1 1.2						
15	3						SPARE - NOT MIGRATED	1 6B			1 3.4						
15	3						SPARE - NOT MIGRATED	1 6B			2 3.4						
15	3						SPARE - NOT MIGRATED	1 6B			2 5.6						
15	3						SPARE - NOT MIGRATED	1 7B			4 5.6						
15	3						SPARE - NOT MIGRATED	1 7B			4 7.8						
15	3						SPARE - NOT MIGRATED	1 7B			3 7.8						
15	3						SPARE - NOT MIGRATED	1 7B			1 1.2						
15	3						SPARE - NOT MIGRATED	1 7B			2 1.2						
15	3						SPARE - NOT MIGRATED	1 7B			2 3.4						
15	3						SPARE - NOT MIGRATED	1 8B			4 3.4						
15	3						SPARE - NOT MIGRATED	1 8B			4 5.6						
15	3						SPARE - NOT MIGRATED	1 8B			3 5.6						
15	3						SPARE - NOT MIGRATED	1 8B			3 7.8						
15	5						SPARE - NOT MIGRATED	3 2B			4 1.2						
15	5						SPARE - NOT MIGRATED	3 2B			4 3.4						
15	5						SPARE - NOT MIGRATED	3 2B			4 5.6						
15	5						SPARE - NOT MIGRATED	3 2B			4 7.8						
15	5						SPARE - NOT MIGRATED	3 2B			3 1.2						
15	5						SPARE - NOT MIGRATED	3 2B			3 3.4						
15	5						SPARE - NOT MIGRATED	3 2B			3 5.6						
15	5						SPARE - NOT MIGRATED	3 2B			3 7.8						
15	5						SPARE - NOT MIGRATED	3 2B			1 1.2						
15	5						SPARE - NOT MIGRATED	3 2B			1 3.4						
15	5						SPARE - NOT MIGRATED	3 2B			1 5.6						
15	5						SPARE - NOT MIGRATED	3 2B			1 7.8						
15	5						SPARE - NOT MIGRATED	3 2B			2 1.2						
15	5						SPARE - NOT MIGRATED	3 2B			2 3.4						
15	5						SPARE - NOT MIGRATED	3 2B			2 5.6						
15	5						SPARE - NOT MIGRATED	3 2B			2 7.8						
15	5						SPARE - NOT MIGRATED	3 3B			4 1.2						
15	5						SPARE - NOT MIGRATED	3 3B			1 5.6						
15	5						SPARE - NOT MIGRATED	3 3B			1 7.8						
15	5						SPARE - NOT MIGRATED	3 3B			2 1.2						
15	5						SPARE - NOT MIGRATED	3 4B			4 1.2						
15	5						SPARE - NOT MIGRATED	3 4B			4 3.4						
15	5						SPARE - NOT MIGRATED	3 4B			2 3.4						
15	5						SPARE - NOT MIGRATED	3 4B			2 5.6						
15	5						SPARE - NOT MIGRATED	3 5B			4 3.4						
15	5						SPARE - NOT MIGRATED	3 5B			3 1.2						
15	5						SPARE - NOT MIGRATED	3 6B			4 1.2						
15	5						SPARE - NOT MIGRATED	3 6B			4 3.4						
15	5						SPARE - NOT MIGRATED	3 6B			3 1.2						
15	5						SPARE - NOT MIGRATED	3 6B			3 7.8						
15	5						SPARE - NOT MIGRATED	3 7B			4 7.8						
15	5						SPARE - NOT MIGRATED	3 7B			3 1.2						
15	5						SPARE - NOT MIGRATED	3 7B			3 7.8						
15	5						SPARE - NOT MIGRATED	3 7B			1 5.6						
15	5						SPARE - NOT MIGRATED	3 8B			3 5.6						
15	5						SPARE - NOT MIGRATED	3 8B			3 7.8						
15	5						SPARE - NOT MIGRATED	3 8B			1 5.6						
15	5						SPARE - NOT MIGRATED	3 8B			2 3.4						
17	3						SPARE - NOT MIGRATED	5 2B			4 1.2						
17	3						SPARE - NOT MIGRATED	5 2B			4 3.4						
17	3						SPARE - NOT MIGRATED	5 2B			4 5.6						
17	3						SPARE - NOT MIGRATED	5 2B			4 7.8						
17	3						SPARE - NOT MIGRATED	5 2B			1 7.8						
17	3						SPARE - NOT MIGRATED	5 2B			2 1.2						
17	3						SPARE - NOT MIGRATED	5 2B			2 3.4						
17	3						SPARE - NOT MIGRATED	5 2B			2 5.6						
17	3						SPARE - NOT MIGRATED	5 2B			2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	3						SPARE - NOT MIGRATED	5 3B			4 1,2						
17	3						SPARE - NOT MIGRATED	5 3B			4 3,4						
17	3						SPARE - NOT MIGRATED	5 3B			4 5,6						
17	3						SPARE - NOT MIGRATED	5 3B			4 7,8						
17	3						SPARE - NOT MIGRATED	5 3B			3 1,2						
17	3						SPARE - NOT MIGRATED	5 3B			3 3,4						
17	3						SPARE - NOT MIGRATED	5 3B			3 5,6						
17	3						SPARE - NOT MIGRATED	5 3B			3 7,8						
17	3						SPARE - NOT MIGRATED	5 6B			1 5,6						
17	3						SPARE - NOT MIGRATED	5 6B			1 7,8						
17	3						SPARE - NOT MIGRATED	5 6B			2 1,2						
17	3						SPARE - NOT MIGRATED	5 6B			2 3,4						
17	3						SPARE - NOT MIGRATED	5 6B			2 5,6						
17	3						SPARE - NOT MIGRATED	5 6B			2 7,8						
17	3						SPARE - NOT MIGRATED	5 7B			4 1,2						
17	3						SPARE - NOT MIGRATED	5 7B			4 3,4						
17	5						SPARE - NOT MIGRATED	7 2B			4 1,2						
17	5						SPARE - NOT MIGRATED	7 2B			4 3,4						
17	5						SPARE - NOT MIGRATED	7 2B			4 5,6						
17	5						SPARE - NOT MIGRATED	7 2B			4 7,8						
17	5						SPARE - NOT MIGRATED	7 2B			3 1,2						
17	5						SPARE - NOT MIGRATED	7 2B			3 3,4						
17	5						SPARE - NOT MIGRATED	7 2B			3 5,6						
17	5						SPARE - NOT MIGRATED	7 2B			3 7,8						
17	5						SPARE - NOT MIGRATED	7 2B			1 1,2						
17	5						SPARE - NOT MIGRATED	7 2B			1 3,4						
17	5						SPARE - NOT MIGRATED	7 2B			1 5,6						
17	5						SPARE - NOT MIGRATED	7 2B			1 7,8						
17	5						SPARE - NOT MIGRATED	7 2B			2 1,2						
17	5						SPARE - NOT MIGRATED	7 2B			2 3,4						
17	5						SPARE - NOT MIGRATED	7 2B			2 5,6						
17	5						SPARE - NOT MIGRATED	7 2B			2 7,8						
17	5						SPARE - NOT MIGRATED	7 3B			1 7,8						
17	5						SPARE - NOT MIGRATED	7 3B			2 1,2						
17	5						SPARE - NOT MIGRATED	7 4B			1 1,2						
17	5						SPARE - NOT MIGRATED	7 4B			1 3,4						
17	5						SPARE - NOT MIGRATED	7 5B			3 3,4						
17	5						SPARE - NOT MIGRATED	7 5B			3 5,6						
17	5						SPARE - NOT MIGRATED	7 6B			4 5,6						
17	5						SPARE - NOT MIGRATED	7 6B			4 7,8						
17	5						SPARE - NOT MIGRATED	7 6B			2 7,8						
17	5						SPARE - NOT MIGRATED	7 7B			3 5,6						
17	5						SPARE - NOT MIGRATED	7 9B			3 1,2						
17	5						SPARE - NOT MIGRATED	7 9B			3 3,4						
17	5						SPARE - NOT MIGRATED	7 9B			3 5,6						
17	5						SPARE - NOT MIGRATED	7 9B			3 7,8						
17	5						SPARE - NOT MIGRATED	7 9B			1 1,2						
17	5						SPARE - NOT MIGRATED	7 9C			3 7,8						
17	5						SPARE - NOT MIGRATED	7 9C			1 5,6						
17	5						SPARE - NOT MIGRATED	7 10C			4 1,2						
17	5						SPARE - NOT MIGRATED	7 10C			4 3,4						
17	5						SPARE - NOT MIGRATED	7 10C			4 5,6						
17	5						SPARE - NOT MIGRATED	7 10C			4 7,8						
17	5						SPARE - NOT MIGRATED	7 10C			3 1,2						
17	5						SPARE - NOT MIGRATED	7 10C			3 3,4						
17	5						SPARE - NOT MIGRATED	7 10C			3 5,6						
17	5						SPARE - NOT MIGRATED	7 10C			3 7,8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs																	
DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	3	CP-S8002	RIO-S8001-3	1	0	BAS731MN	CLFR 1 COLL CTL		1 2D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	1	1	BAS731MO	CLFR 1 COLL CTL		1 2D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	1	2	BAS732MN	CLFR 2 COLL CTL		1 2D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	1	3	BAS732MO	CLFR 2 COLL CTL		1 2D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	1	4	BAS733MN	CLFR 3 COLL CTL		1 2D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	1	5	BAS733MO	CLFR 3 COLL CTL		1 2D		2 7,8						
15	3	CP-S8002	RIO-S8001-3	1	6	BAS734MN	CLFR 4 COLL CTL		1 3C		1 1,2						
15	3	CP-S8002	RIO-S8001-3	1	7	BAS734MO	CLFR 4 COLL CTL		1 3C		1 3,4						
15	3	CP-S8002	RIO-S8001-3	1	8	BAS735MN	CLFR 5 COLL CTL		1 3C		1 5,6						
15	3	CP-S8002	RIO-S8001-3	1	9	BAS735MO	CLFR 5 COLL CTL		1 3C		1 7,8						
15	3	CP-S8002	RIO-S8001-3	1	10	BAS736MN	CLFR 6 COLL CTL		1 3C		2 1,2						
15	3	CP-S8002	RIO-S8001-3	1	11	BAS736MO	CLFR 6 COLL CTL		1 3C		2 3,4						
15	3	CP-S8002	RIO-S8001-3	1	12	BAS737MN	CLFR 7 COLL CTL		1 3C		2 5,6						
15	3	CP-S8002	RIO-S8001-3	1	13	BAS737MO	CLFR 7 COLL CTL		1 3C		2 7,8						
15	3	CP-S8002	RIO-S8001-3	1	14	BAS738MN	CLFR 8 COLL CTL		1 3D		1 1,2						
15	3	CP-S8002	RIO-S8001-3	1	15	BAS738MO	CLFR 8 COLL CTL		1 3D		1 3,4						
15	3	CP-S8002	RIO-S8001-3	2	0	BAS739MN	CLFR 9 COLL CTL		1 3D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	2	1	BAS739MO	CLFR 9 COLL CTL		1 3D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	2	2	BAS740MN	CLFR 10 COLL CTL		1 3D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	2	3	BAS740MO	CLFR 10 COLL CTL		1 3D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	2	4	BAS901MN	CLFR 1 SL PUMP		1 3D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	2	5	BAS901MO	CLFR 1 SL PUMP		1 3D		2 7,8						
15	3	CP-S8002	RIO-S8001-3	2	6	BAS902MN	CLFR 2 SL PUMP		1 4C		1 1,2						
15	3	CP-S8002	RIO-S8001-3	2	7	BAS902MO	CLFR 2 SL PUMP		1 4C		1 3,4						
15	3	CP-S8002	RIO-S8001-3	2	8	BAS903MN	CLFR 3 SL PUMP		1 4C		1 5,6						
15	3	CP-S8002	RIO-S8001-3	2	9	BAS903MO	CLFR 3 SL PUMP		1 4C		1 7,8						
15	3	CP-S8002	RIO-S8001-3	2	10	BAS904MN	CLFR 4 SL PUMP		1 4C		2 1,2						
15	3	CP-S8002	RIO-S8001-3	2	11	BAS904MO	CLFR 4 SL PUMP		1 4C		2 3,4						
15	3	CP-S8002	RIO-S8001-3	2	12	BAS905MN	CLFR 5 SL PUMP		1 4C		2 5,6						
15	3	CP-S8002	RIO-S8001-3	2	13	BAS905MO	CLFR 5 SL PUMP		1 4C		2 7,8						
15	3	CP-S8002	RIO-S8001-3	2	14	BAS906MN	CLFR 6 SL PUMP		1 4D		1 1,2						
15	3	CP-S8002	RIO-S8001-3	2	15	BAS906MO	CLFR 6 SL PUMP		1 4D		1 3,4						
15	3	CP-S8002	RIO-S8001-3	3	0	BAS907MN	CLFR 7 SL PUMP		1 4D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	3	1	BAS907MO	CLFR 7 SL PUMP		1 4D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	3	2	BAS908MN	CLFR 8 SL PUMP		1 4D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	3	3	BAS908MO	CLFR 8 SL PUMP		1 4D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	3	4	BAS909MN	CLFR 9 SL PUMP		1 4D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	3	5	BAS909MO	CLFR 9 SL PUMP		1 4D		2 7,8						
15	3	CP-S8002	RIO-S8001-3	3	6	BAS910MN	CLFR 10 SL PUMP		1 5C		1 1,2						
15	3	CP-S8002	RIO-S8001-3	3	7	BAS910MO	CLFR 10 SL PUMP		1 5C		1 3,4						
15	3	CP-S8002	RIO-S8001-3	3	8	BAS941VB	TRN 3 WAS VLV		1 5C		1 5,6						
15	3	CP-S8002	RIO-S8001-3	3	9	BAS941VD	TRN 3 WAS VLV		1 5C		1 7,8						
15	3	CP-S8002	RIO-S8001-3	3	10	BAS942VB	TRN 2 WAS VLV		1 5C		2 1,2						
15	3	CP-S8002	RIO-S8001-3	3	11	BAS942VD	TRN 2 WAS VLV		1 5C		2 3,4						
15	3	CP-S8002	RIO-S8001-3	3	12	BAS943VB	TRN 1 WAS VLV		1 5C		2 5,6						
15	3	CP-S8002	RIO-S8001-3	3	13	BAS943VD	TRN 1 WAS VLV		1 5C		2 7,8						
15	3	CP-S8002	RIO-S8001-3	3	14	BAS951MN	WAP1 WAS PUMP CTL		1 5D		1 1,2						
15	3	CP-S8002	RIO-S8001-3	3	15	BAS951MO	WAP1 WAS PUMP CTL		1 5D		1 3,4						
15	3	CP-S8002	RIO-S8001-3	4	0	BAS952MN	WAP2 WAS PUMP CTL		1 5D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	4	1	BAS952MO	WAP2 WAS PUMP CTL		1 5D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	4	2	BAS953MN	WAP3 WAS PUMP CTL		1 5D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	4	3	BAS953MO	WAP3 WAS PUMP CTL		1 5D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	4	4	BAS954MN	WAP4 WAS PUMP CTL		1 5D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	4	5	BAS954MO	WAP4 WAS PUMP CTL		1 5D		2 7,8						
15	3	CP-S8002	RIO-S8001-3	4	6	BAS901SB	RAP1 CLFR 1 PP CTL		1 7C		2 1,2						
15	3	CP-S8002	RIO-S8001-3	4	7	BAS901SD	RAP1 CLFR 1 PP CTL		1 7C		2 3,4						
15	3	CP-S8002	RIO-S8001-3	4	8	BAS902SB	RAP2 CLFR 2 PP CTL		1 7C		2 5,6						
15	3	CP-S8002	RIO-S8001-3	4	9	BAS902SD	RAP2 CLFR 2 PP CTL		1 7C		2 7,8						
15	3	CP-S8002	RIO-S8001-3	4	10	BAS903SB	RAP3 CLFR 3 PP CTL		1 7D		1 1,2						
15	3	CP-S8002	RIO-S8001-3	4	11	BAS903SD	RAP3 CLFR 3 PP CTL		1 7D		1 3,4						
15	3	CP-S8002	RIO-S8001-3	4	12	BAS904SB	RAP4 CLFR 4 PP CTL		1 7D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	4	13	BAS904SD	RAP4 CLFR 4 PP CTL		1 7D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	4	14	BAS905SB	RAP5 CLFR 5 PP CTL		1 7D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	4	15	BAS905SD	RAP5 CLFR 5 PP CTL		1 7D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	5	0	BAS906SB	RAP6 CLFR 6 PP CTL		1 7D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	5	1	BAS906SD	RAP6 CLFR 6 PP CTL		1 7D		2 7,8						
15	3	CP-S8002	RIO-S8001-3	5	2	BAS907SB	RAP7 CLFR 7 PP CTL		1 8C		1 1,2						
15	3	CP-S8002	RIO-S8001-3	5	3	BAS907SD	RAP7 CLFR 7 PP CTL		1 8C		1 3,4						
15	3	CP-S8002	RIO-S8001-3	5	4	BAS908SB	RAP8 CLFR 8 PP CTL		1 8C		1 5,6						
15	3	CP-S8002	RIO-S8001-3	5	5	BAS908SD	RAP8 CLFR 8 PP CTL		1 8C		1 7,8						
15	3	CP-S8002	RIO-S8001-3	5	6	BAS909SB	RAP9 CLFR 9 PP CTL		1 8C		2 1,2						
15	3	CP-S8002	RIO-S8001-3	5	7	BAS909SD	RAP9 CLFR 9 PP CTL		1 8C		2 3,4						
15	3	CP-S8002	RIO-S8001-3	5	8	BAS910SB	RAP10 CLFR 10 PP CTL		1 8C		2 5,6						
15	3	CP-S8002	RIO-S8001-3	5	9	BAS910SD	RAP10 CLFR 10 PP CTL		1 8C		2 7,8						
15	3	CP-S8002	RIO-S8001-3	5	10	BAS951SB	WAP1 WAS PUMP CTL		1 8D		1 1,2						
15	3	CP-S8002	RIO-S8001-3	5	11	BAS951SD	WAP1 WAS PUMP CTL		1 8D		1 3,4						
15	3	CP-S8002	RIO-S8001-3	5	12	BAS952SB	WAP2 WAS PUMP CTL		1 8D		1 5,6						
15	3	CP-S8002	RIO-S8001-3	5	13	BAS952SD	WAP2 WAS PUMP CTL		1 8D		1 7,8						
15	3	CP-S8002	RIO-S8001-3	5	14	BAS953SB	WAP3 WAS PUMP CTL		1 8D		2 1,2						
15	3	CP-S8002	RIO-S8001-3	5	15	BAS953SD	WAP3 WAS PUMP CTL		1 8D		2 3,4						
15	3	CP-S8002	RIO-S8001-3	6	0	BAS954SB	WAP4 WAS PUMP CTL		1 8D		2 5,6						
15	3	CP-S8002	RIO-S8001-3	6	1	BAS954SD	WAP4 WAS PUMP CTL		1 8D		2 7,8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	5	CP-S8002	RIO-S8001-3	6	2	BBS461MN	SP6 SC PUMP CTL		3 2C		2 5.6						
15	5	CP-S8002	RIO-S8001-3	6	3	BBS461MO	SP6 SC PUMP CTL		3 2C		2 7.8						
15	5	CP-S8002	RIO-S8001-3	6	4	BBS463VB	SC DSCH VLV 6 CTL		3 2D		1 1.2						
15	5	CP-S8002	RIO-S8001-3	6	5	BBS463VD	SC DSCH VLV 6 CTL		3 2D		1 3.4						
15	5	CP-S8002	RIO-S8001-3	6	6	BBS464VB	SC RECC VLV 6 CTL		3 2D		1 5.6						
15	5	CP-S8002	RIO-S8001-3	6	7	BBS464VD	SC RECC VLV 6 CTL		3 2D		1 7.8						
15	5	CP-S8002	RIO-S8001-3	6	8	BBS465VB	SC FLSH VLV 6 CTL		3 2D		2 1.2						
15	5	CP-S8002	RIO-S8001-3	6	9	BBS465VD	SC FLSH VLV 6 CTL		3 2D		2 3.4						
15	5	CP-S8002	RIO-S8001-3	6	10	BBS468VB	SC TRH VLV 6 CTL		3 2D		2 5.6						
15	5	CP-S8002	RIO-S8001-3	6	11	BBS468VD	SC TRH VLV 6 CTL		3 2D		2 7.8						
15	5	CP-S8002	RIO-S8001-3	6	12	BBS469VB	SC TRH VLV 6 CTL		3 3C		1 1.2						
15	5	CP-S8002	RIO-S8001-3	6	13	BBS469VD	SC TRH VLV 6 CTL		3 3C		1 3.4						
15	5	CP-S8002	RIO-S8001-3	6	14	BBS471MN	SP7 SC PUMP CTL		3 3C		1 5.6						
15	5	CP-S8002	RIO-S8001-3	6	15	BBS471MO	SP7 SC PUMP CTL		3 3C		1 7.8						
15	5	CP-S8002	RIO-S8001-3	7	0	BBS473VB	SC DSGH VLV 7		3 3C		2 1.2						
15	5	CP-S8002	RIO-S8001-3	7	1	BBS473VD	SC DSGH VLV 7		3 3C		2 3.4						
15	5	CP-S8002	RIO-S8001-3	7	2	BBS474VB	SC RECC VLV 7		3 3C		2 5.6						
15	5	CP-S8002	RIO-S8001-3	7	3	BBS474VD	SC RECC VLV 7		3 3C		2 7.8						
15	5	CP-S8002	RIO-S8001-3	7	4	BBS475VB	SC FLSH VLV 7		3 3D		1 1.2						
15	5	CP-S8002	RIO-S8001-3	7	5	BBS475VD	SC FLSH VLV 7		3 3D		1 3.4						
15	5	CP-S8002	RIO-S8001-3	7	6	BBS478VB	SC TRH VLV 7		3 3D		1 5.6						
15	5	CP-S8002	RIO-S8001-3	7	7	BBS478VD	SC TRH VLV 7		3 3D		1 7.8						
15	5	CP-S8002	RIO-S8001-3	7	8	BBS479VB	SC TRH VLV 7		3 3D		2 1.2						
15	5	CP-S8002	RIO-S8001-3	7	9	BBS479VD	SC TRH VLV 7		3 3D		2 3.4						
15	5	CP-S8002	RIO-S8001-3	7	10	BBS481MN	SP8 SC PUMP CTL		3 3D		2 5.6						
15	5	CP-S8002	RIO-S8001-3	7	11	BBS481MO	SP8 SC PUMP CTL		3 3D		2 7.8						
15	5	CP-S8002	RIO-S8001-3	7	12	BBS483VB	SC DSCG VLV 8		3 4C		1 1.2						
15	5	CP-S8002	RIO-S8001-3	7	13	BBS483VD	SC DSCG VLV 8		3 4C		1 3.4						
15	5	CP-S8002	RIO-S8001-3	7	14	BBS484VB	SC RECC VLV 8		3 4C		1 5.6						
15	5	CP-S8002	RIO-S8001-3	7	15	BBS484VD	SC RECC VLV 8		3 4C		1 7.8						
15	5	CP-S8002	RIO-S8001-3	8	0	BBS485VB	SC FLSH VLV 8		3 4C		2 1.2						
15	5	CP-S8002	RIO-S8001-3	8	1	BBS485VD	SC FLSH VLV 8		3 4C		2 3.4						
15	5	CP-S8002	RIO-S8001-3	8	2	BBS488VB	SC TRH VLV 8		3 4C		2 5.6						
15	5	CP-S8002	RIO-S8001-3	8	3	BBS488VD	SC TRH VLV 8		3 4C		2 7.8						
15	5	CP-S8002	RIO-S8001-3	8	4	BBS489VB	SC TRH VLV 8		3 4D		1 1.2						
15	5	CP-S8002	RIO-S8001-3	8	5	BBS489VD	SC TRH VLV 8		3 4D		1 3.4						
15	5	CP-S8002	RIO-S8001-3	8	6	BBS491MN	SP9 SC PUMP CTL		3 4D		1 5.6						
15	5	CP-S8002	RIO-S8001-3	8	7	BBS491MO	SP9 SC PUMP CTL		3 4D		1 7.8						
15	5	CP-S8002	RIO-S8001-3	8	8	BBS493VB	SC DSGH VLV 9		3 4D		2 1.2						
15	5	CP-S8002	RIO-S8001-3	8	9	BBS493VD	SC DSGH VLV 9		3 4D		2 3.4						
15	5	CP-S8002	RIO-S8001-3	8	10	BBS494VB	SC RECC VLV 9		3 4D		2 5.6						
15	5	CP-S8002	RIO-S8001-3	8	11	BBS494VD	SC RECC VLV 9		3 4D		2 7.8						
15	5	CP-S8002	RIO-S8001-3	8	12	BBS495VB	SC FLSH VLV 9		3 5C		1 1.2						
15	5	CP-S8002	RIO-S8001-3	8	13	BBS495VD	SC FLSH VLV 9		3 5C		1 3.4						
15	5	CP-S8002	RIO-S8001-3	8	14	BBS498VB	SC TRH VLV 9		3 5C		1 5.6						
15	5	CP-S8002	RIO-S8001-3	8	15	BBS498VD	SC TRH VLV 9		3 5C		1 7.8						
15	5	CP-S8002	RIO-S8001-3	9	0	BBS499VB	SC TRH VLV 9		3 5C		2 1.2						
15	5	CP-S8002	RIO-S8001-3	9	1	BBS499VD	SC TRH VLV 9		3 5C		2 3.4						
15	5	CP-S8002	RIO-S8001-3	9	2	530BBE01	PE SAMP CTL		3 5C		2 5.6						
15	5	CP-S8002	RIO-S8001-3	9	3	534BBE02	TRN 1 (1-8) SAMP CTL OBSOLETE		3 5D		1 5.6						
17	3	CP-S8002	RIO-S8001-3	9	4	617BCE01	FN1 EXH FAN CTL		5 4D		1 1.2						
17	3	CP-S8002	RIO-S8001-3	9	5	618BCE01	FN2 EXH FAN CTL		5 4D		1 5.6						
17	3	CP-S8002	RIO-S8001-3	9	6	619BCE01	FN3 EXH FAN CTL		5 4D		2 1.2						
17	3	CP-S8002	RIO-S8001-3	9	7	620BCE01	FN4 EXH FAN CTL		5 4D		2 5.6						
17	3	CP-S8002	RIO-S8001-3	9	8		FN5 EXH FAN CTL		5 5C		1 1.2						
17	3	CP-S8002	RIO-S8001-3	9	9		AB1 AIR BLOWER CTL		5 5C		1 5.6						
17	3	CP-S8002	RIO-S8001-3	9	10		AB1 AIR BLOWER CTL		5 5C		1 7.8						
17	3	CP-S8002	RIO-S8001-3	9	11		AB2 AIR BLOWER CTL		5 5C		2 1.2						
17	3	CP-S8002	RIO-S8001-3	9	12		AB2 AIR BLOWER CTL		5 5C		2 3.4						
17	3	CP-S8002	RIO-S8001-3	9	13	BCS701MN	SC11 CLFR 11-12 COLL		5 5D		2 1.2						
17	3	CP-S8002	RIO-S8001-3	9	14	BCS701MO	SC11 CLFR 11-12 COLL		5 5D		2 3.4						
17	3	CP-S8002	RIO-S8001-3	9	15	BCS702MN	SC12 CLFR 13-14 COLL		5 5D		2 5.6						
17	3	CP-S8002	RIO-S8001-3	10	0	BCS702MO	SC12 CLFR 13-14 COLL		5 5D		2 7.8						
17	3	CP-S8002	RIO-S8001-3	10	1	BCS703MN	SC13 CLFR 15-16 COLL		5 6C		1 1.2						
17	3	CP-S8002	RIO-S8001-3	10	2	BCS703MO	SC13 CLFR 15-16 COLL		5 6C		1 3.4						
17	3	CP-S8002	RIO-S8001-3	10	3	BCS704MN	SC14 CLFR 17-18 COLL		5 6C		1 5.6						
17	3	CP-S8002	RIO-S8001-3	10	4	BCS704MO	SC14 CLFR 17-18 COLL		5 6C		1 7.8						
17	3	CP-S8002	RIO-S8001-3	10	5	BCS911MN	RAP11 RAS PUMP CTL		5 6C		2 1.2						
17	3	CP-S8002	RIO-S8001-3	10	6	BCS911MO	RAP11 RAS PUMP CTL		5 6C		2 3.4						
17	3	CP-S8002	RIO-S8001-3	10	7	BCS912MN	RAP12 RAS PUMP CTL		5 6C		2 5.6						
17	3	CP-S8002	RIO-S8001-3	10	8	BCS912MO	RAP12 RAS PUMP CTL		5 6C		2 7.8						
17	3	CP-S8002	RIO-S8001-3	10	9	BCS913MN	RAP13 RAS PUMP CTL		5 6D		1 1.2						
17	3	CP-S8002	RIO-S8001-3	10	10	BCS913MO	RAP13 RAS PUMP CTL		5 6D		1 3.4						
17	3	CP-S8002	RIO-S8001-3	10	11	BCS914MN	RAP14 RAS PUMP CTL		5 6D		1 5.6						
17	3	CP-S8002	RIO-S8001-3	10	12	BCS914MO	RAP14 RAS PUMP CTL		5 6D		1 7.8						
17	3	CP-S8002	RIO-S8001-3	10	13	BCS915MN	RAP15 RAS PUMP CTL		5 6D		2 1.2						
17	3	CP-S8002	RIO-S8001-3	10	14	BCS915MO	RAP15 RAS PUMP CTL		5 6D		2 3.4						
17	3	CP-S8002	RIO-S8001-3	10	15	BCS916MN	RAP16 RAS PUMP CTL		5 6D		2 5.6						
17	3	CP-S8002	RIO-S8001-3	11	0	BCS916MO	RAP16 RAS PUMP CTL		5 6D		2 7.8						
17	3	CP-S8002	RIO-S8001-3	11	1	BCS917MN	RAP17 RAS PUMP CTL		5 7C		1 1.2						
17	3	CP-S8002	RIO-S8001-3	11	2	BCS917MO	RAP17 RAS PUMP CTL		5 7C		1 3.4						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	3	CP-S8002	RIO-S8001-3	11	3	BCS918MN	RAP18 RAS PUMP CTL		5 7C		1 5.6						
17	3	CP-S8002	RIO-S8001-3	11	4	BCS918MO	RAP18 RAS PUMP CTL		5 7C		1 7.8						
17	3	CP-S8002	RIO-S8001-3	11	5	BCR810VB	FV 1A RAS VLV CTL		5 7D		1 1.2						
17	3	CP-S8002	RIO-S8001-3	11	6	BCR810VD	FV 1A RAS VLV CTL		5 7D		1 3.4						
17	3	CP-S8002	RIO-S8001-3	11	7	BCR815VB	FV 1B RAS VLV CTL		5 7D		1 5.6						
17	3	CP-S8002	RIO-S8001-3	11	8	BCR815VB	FV 1B RAS VLV CTL		5 7D		1 7.8						
17	3	CP-S8002	RIO-S8001-3	11	9	BCR820VB	FV 2A RAS VLV CTL		5 7D		2 1.2						
17	3	CP-S8002	RIO-S8001-3	11	10	BCR820VD	FV 2A RAS VLV CTL		5 7D		2 3.4						
17	3	CP-S8002	RIO-S8001-3	11	11	BCR825VB	FV 2B RAS VLV CTL		5 7D		2 5.6						
17	3	CP-S8002	RIO-S8001-3	11	12	BCR825VD	FV 2B RAS VLV CTL		5 7D		2 7.8						
17	3	CP-S8002	RIO-S8001-3	11	13	BCR830VB			5 8C		1 1.2						
17	3	CP-S8002	RIO-S8001-3	11	14	BCR830VD			5 8C		1 3.4						
17	3	CP-S8002	RIO-S8001-3	11	15	BCR835VB			5 8C		1 5.6						
17	3	CP-S8002	RIO-S8001-4	1	0	BCR835VD			5 8C		1 7.8						
17	3	CP-S8002	RIO-S8001-4	1	1	BCS911SB	RAP 11 CLFR11 PP CTL		5 9C		1 1.2						
17	3	CP-S8002	RIO-S8001-4	1	2	BCS911SD	RAP 11 CLFR11 PP CTL		5 9C		1 3.4						
17	3	CP-S8002	RIO-S8001-4	1	3	BCS912SB	RAP 12 CLFR12 PP CTL		5 9C		1 5.6						
17	3	CP-S8002	RIO-S8001-4	1	4	BCS912SD	RAP 12 CLFR12 PP CTL		5 9C		1 7.8						
17	3	CP-S8002	RIO-S8001-4	1	5	BCS913SB	RAP 13 CLFR13 PP CTL		5 9C		2 1.2						
17	3	CP-S8002	RIO-S8001-4	1	6	BCS913SD	RAP 13 CLFR13 PP CTL		5 9C		2 3.4						
17	3	CP-S8002	RIO-S8001-4	1	7	BCS914SB	RAP 14 CLFR14 PP CTL		5 9C		2 5.6						
17	3	CP-S8002	RIO-S8001-4	1	8	BCS914SD	RAP 14 CLFR14 PP CTL		5 9C		2 7.8						
17	3	CP-S8002	RIO-S8001-4	1	9	BCS915SB	RAP 15 CLFR15 PP CTL		5 9D		1 1.2						
17	3	CP-S8002	RIO-S8001-4	1	10	BCS915SD	RAP 15 CLFR15 PP CTL		5 9D		1 3.4						
17	3	CP-S8002	RIO-S8001-4	1	11	BCS916SB	RAP 16 CLFR16 PP CTL		5 9D		1 5.6						
17	3	CP-S8002	RIO-S8001-4	1	12	BCS916SD	RAP 16 CLFR16 PP CTL		5 9D		1 7.8						
17	3	CP-S8002	RIO-S8001-4	1	13	BCS917SB	RAP 17 CLFR17 PP CTL		5 9D		2 1.2						
17	3	CP-S8002	RIO-S8001-4	1	14	BCS917SD	RAP 17 CLFR17 PP CTL		5 9D		2 3.4						
17	3	CP-S8002	RIO-S8001-4	1	15	BCS918SB	RAP 18 CLFR18 PP CTL		5 9D		2 5.6						
17	3	CP-S8002	RIO-S8001-4	2	0	BCS918SD	RAP 18 CLFR18 PP CTL		5 9D		2 7.8						
17	5	CP-S8002	RIO-S8001-4	2	1	BDS411MN	SP1 SC PUMP CTL		7 2C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	2	2	BDS411MO	SP1 SC PUMP CTL		7 2C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	2	3	BDS413VB	HV SC DSCH VLV 1		7 2D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	2	4	BDS413VD	HV SC DSCH VLV 1		7 2D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	2	5	BDS414VB	HV SC RECC VLV 1		7 2D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	2	6	BDS414VD	HV SC RECC VLV 1		7 2D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	2	7	BDS415VB	HV SC FLSH VLV 1		7 2D		2 1.2						
17	5	CP-S8002	RIO-S8001-4	2	8	BDS415VD	HV SC FLSH VLV 1		7 2D		2 3.4						
17	5	CP-S8002	RIO-S8001-4	2	9	BDS421MN	SP2 SC PUMP CTL		7 2D		2 5.6						
17	5	CP-S8002	RIO-S8001-4	2	10	BDS421MO	SP2 SC PUMP CTL		7 2D		2 7.8						
17	5	CP-S8002	RIO-S8001-4	2	11	BDS423VB	HV SC DSCH VLV 2		7 3C		1 1.2						
17	5	CP-S8002	RIO-S8001-4	2	12	BDS423VD	HV SC DSCH VLV 2		7 3C		1 3.4						
17	5	CP-S8002	RIO-S8001-4	2	13	BDS424VB	HV SC RECC VLV 2		7 3C		1 5.6						
17	5	CP-S8002	RIO-S8001-4	2	14	BDS424VD	HV SC RECC VLV 2		7 3C		1 7.8						
17	5	CP-S8002	RIO-S8001-4	2	15	BDS425VB	HV SC FLSH VLV 2		7 3C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	3	0	BDS425VD	HV SC FLSH VLV 2		7 3C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	3	1	BDS431MN	SP3 SC PUMP CTL		7 3C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	3	2	BDS431MO	SP3 SC PUMP CTL		7 3C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	3	3	BDS433VB	HV SC DSCH VLV 3		7 3D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	3	4	BDS433VD	HV SC DSCH VLV 3		7 3D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	3	5	BDS434VB	HV SC RECC VLV 3		7 3D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	3	6	BDS434VD	HV SC RECC VLV 3		7 3D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	3	7	BDS435VB	HV SC FLSH VLV 3		7 3D		2 1.2						
17	5	CP-S8002	RIO-S8001-4	3	8	BDS435VD	HV SC FLSH VLV 3		7 3D		2 3.4						
17	5	CP-S8002	RIO-S8001-4	3	9	BDS441MN	SP4 SC PUMP CTL		7 3D		2 5.6						
17	5	CP-S8002	RIO-S8001-4	3	10	BDS441MO	SP4 SC PUMP CTL		7 3D		2 7.8						
17	5	CP-S8002	RIO-S8001-4	3	11	BDS443VB	HV SC DSCH VLV 4		7 4C		1 1.2						
17	5	CP-S8002	RIO-S8001-4	3	12	BDS443VD	HV SC DSCH VLV 4		7 4C		1 3.4						
17	5	CP-S8002	RIO-S8001-4	3	13	BDS444VB	HV SC RECC VLV 4		7 4C		1 5.6						
17	5	CP-S8002	RIO-S8001-4	3	14	BDS444VD	HV SC RECC VLV 4		7 4C		1 7.8						
17	5	CP-S8002	RIO-S8001-4	3	15	BDS445VB	HV SC FLSH VLV 4		7 4C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	4	0	BDS445VD	HV SC FLSH VLV 4		7 4C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	4	1	BDS451MN	SP5 SC PUMP CTL		7 4C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	4	2	BDS451MO	SP5 SC PUMP CTL		7 4C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	4	3	BDS453VB	HV SC DSCH VLV 5		7 4D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	4	4	BDS453VD	HV SC DSCH VLV 5		7 4D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	4	5	BDS454VB	HV SC RECC VLV 5		7 4D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	4	6	BDS454VD	HV SC RECC VLV 5		7 4D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	4	7	BDS455VB	HV SC FLSH VLV 5		7 4D		2 1.2						
17	5	CP-S8002	RIO-S8001-4	4	8	BDS455VD	HV SC FLSH VLV 5		7 4D		2 3.4						
17	5	CP-S8002	RIO-S8001-4	4	9	BDS604MN	AF9 VENT FAN CTL		7 4D		2 5.6						
17	5	CP-S8002	RIO-S8001-4	4	10	BDS604MO	AF9 VENT FAN CTL		7 4D		2 7.8						
17	5	CP-S8002	RIO-S8001-4	4	11	BDS605MN	AF10 VENT FAN CTL		7 5C		1 1.2						
17	5	CP-S8002	RIO-S8001-4	4	12	BDS605MO	AF10 VENT FAN CTL		7 5C		1 3.4						
17	5	CP-S8002	RIO-S8001-4	4	13	BDS606MN	AF12 AIR HANDL CTL		7 5C		1 5.6						
17	5	CP-S8002	RIO-S8001-4	4	14	BDS606MO	AF12 AIR HANDL CTL		7 5C		1 7.8						
17	5	CP-S8002	RIO-S8001-4	4	15	BDS607MN	AF14 AIR HANDL CTL		7 5C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	5	0	BDS607MO	AF14 AIR HANDL CTL		7 5C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	5	1	BDS608MN	AF16 AIR HANDL CTL		7 5C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	5	2	BDS608MO	AF16 AIR HANDL CTL		7 5C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	5	3	BDS609MN	AF18 AIR HANDL CTL		7 5D		1 1.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	5	CP-S8002	RIO-S8001-4	5	4	BDS609MO	AF18 AIR HANDL CTL		7 5D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	5	5	BDS604MN	AF9 VENT FAN CTL - SPARE?		7 5D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	5	6	BDS604MO	AF9 VENT FAN CTL - SPARE?		7 5D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	5	7	BDS705MN	SC15 CLFT 19-20 COLL		7 6C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	5	8	BDS705MO	SC15 CLFT 19-20 COLL		7 6C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	5	9	BDS706MN	SC16 CLFT 21-22 COLL		7 6C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	5	10	BDS706MO	SC16 CLFT 21-22 COLL		7 6C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	5	11	BDS707MN	SC17 CLFT 23-24 COLL		7 6D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	5	12	BDS707MO	SC17 CLFT 23-24 COLL		7 6D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	5	13	BDS708MN	SC18 CLFT 25-26 COLL		7 6D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	5	14	BDS708MO	SC18 CLFT 25-26 COLL		7 6D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	5	15	BDS919MN	RAP19 CLFR 19 PP CTL		7 6D		2 1.2						
17	5	CP-S8002	RIO-S8001-4	6	0	BDS919MO	RAP19 CLFR 19 PP CTL		7 6D		2 3.4						
17	5	CP-S8002	RIO-S8001-4	6	1	BDS920MN	RAP20 CLFR 20 PP CTL		7 6D		2 5.6						
17	5	CP-S8002	RIO-S8001-4	6	2	BDS920MO	RAP20 CLFR 20 PP CTL		7 6D		2 7.8						
17	5	CP-S8002	RIO-S8001-4	6	3	BDS921MN	RAP21 CLFR 21 PP CTL		7 7C		1 1.2						
17	5	CP-S8002	RIO-S8001-4	6	4	BDS921MO	RAP21 CLFR 21 PP CTL		7 7C		1 3.4						
17	5	CP-S8002	RIO-S8001-4	6	5	BDS922MN	RAP22 CLFR 22 PP CTL		7 7C		1 5.6						
17	5	CP-S8002	RIO-S8001-4	6	6	BDS922MO	RAP22 CLFR 22 PP CTL		7 7C		1 7.8						
17	5	CP-S8002	RIO-S8001-4	6	7	BDS923MN	RAP23 CLFR 23 PP CTL		7 7C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	6	8	BDS923MO	RAP23 CLFR 23 PP CTL		7 7C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	6	9	BDS924MN	RAP24 CLFR 24 PP CTL		7 7C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	6	10	BDS924MO	RAP24 CLFR 24 PP CTL		7 7C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	6	11	BDS925MN	RAP25 CLFR 25 PP CTL		7 7D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	6	12	BDS925MO	RAP25 CLFR 25 PP CTL		7 7D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	6	13	BDS926MN	RAP26 CLFR 26 PP CTL		7 7D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	6	14	BDS926MO	RAP26 CLFR 26 PP CTL		7 7D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	6	15	BDS919SB	RAP19 CLFR 19 PP CTL		7 8C		1 1.2						
17	5	CP-S8002	RIO-S8001-4	7	0	BDS919SD	RAP19 CLFR 19 PP CTL		7 8C		1 3.4						
17	5	CP-S8002	RIO-S8001-4	7	1	BDS920SB	RAP20 CLFR 20 PP CTL		7 8C		1 5.6						
17	5	CP-S8002	RIO-S8001-4	7	2	BDS920SD	RAP20 CLFR 20 PP CTL		7 8C		1 7.8						
17	5	CP-S8002	RIO-S8001-4	7	3	BDS921SB	RAP21 CLFR 21 PP CTL		7 8C		2 1.2						
17	5	CP-S8002	RIO-S8001-4	7	4	BDS921SD	RAP21 CLFR 21 PP CTL		7 8C		2 3.4						
17	5	CP-S8002	RIO-S8001-4	7	5	BDS922SB	RAP22 CLFR 22 PP CTL		7 8C		2 5.6						
17	5	CP-S8002	RIO-S8001-4	7	6	BDS922SD	RAP22 CLFR 22 PP CTL		7 8C		2 7.8						
17	5	CP-S8002	RIO-S8001-4	7	7	BDS923SB	RAP23 CLFR 23 PP CTL		7 8D		1 1.2						
17	5	CP-S8002	RIO-S8001-4	7	8	BDS923SD	RAP23 CLFR 23 PP CTL		7 8D		1 3.4						
17	5	CP-S8002	RIO-S8001-4	7	9	BDS924SB	RAP24 CLFR 24 PP CTL		7 8D		1 5.6						
17	5	CP-S8002	RIO-S8001-4	7	10	BDS924SD	RAP24 CLFR 24 PP CTL		7 8D		1 7.8						
17	5	CP-S8002	RIO-S8001-4	7	11	BDS925SB	RAP25 CLFR 25 PP CTL		7 8D		2 1.2						
17	5	CP-S8002	RIO-S8001-4	7	12	BDS925SD	RAP25 CLFR 25 PP CTL		7 8D		2 3.4						
17	5	CP-S8002	RIO-S8001-4	7	13	BDS926SB	RAP26 CLFR 26 PP CTL		7 8D		2 5.6						
17	5	CP-S8002	RIO-S8001-4	7	14	BDS926SD	RAP26 CLFR 26 PP CTL		7 8D		2 7.8						
15	3	CP-S8002	RIO-S8001-4	7	15		SPARE		1 2C		1 1.2						
15	3	CP-S8002	RIO-S8001-4	8	0		SPARE		1 2C		1 3.4						
15	3	CP-S8002	RIO-S8001-4	8	1		SPARE		1 2C		1 5.6						
15	3	CP-S8002	RIO-S8001-4	8	2		SPARE		1 2C		1 7.8						
15	3	CP-S8002	RIO-S8001-4	8	3		SPARE		1 2C		2 1.2						
15	3	CP-S8002	RIO-S8001-4	8	4		SPARE		1 2C		2 3.4						
15	3	CP-S8002	RIO-S8001-4	8	5		SPARE		1 2C		2 5.6						
15	3	CP-S8002	RIO-S8001-4	8	6		SPARE		1 2C		2 7.8						
15	3	CP-S8002	RIO-S8001-4	8	7		SPARE		1 2D		1 1.2						
15	3	CP-S8002	RIO-S8001-4	8	8		SPARE		1 2D		1 3.4						
15	3	CP-S8002	RIO-S8001-4	8	9		SPARE		1 6C		1 1.2						
15	3	CP-S8002	RIO-S8001-4	8	10		SPARE		1 6C		1 3.4						
15	3	CP-S8002	RIO-S8001-4	8	11		SPARE		1 6C		1 5.6						
15	3	CP-S8002	RIO-S8001-4	8	12		SPARE		1 6C		1 7.8						
15	3	CP-S8002	RIO-S8001-4	8	13		SPARE		1 6C		2 1.2						
15	3	CP-S8002	RIO-S8001-4	8	14		SPARE		1 6C		2 3.4						
15	3	CP-S8002	RIO-S8001-4	8	15		SPARE		1 6C		2 5.6						
15	3						SPARE - NOT MIGRATED		1 6C		2 7.8						
15	3						SPARE - NOT MIGRATED		1 6D		1 1.2						
15	3						SPARE - NOT MIGRATED		1 6D		1 3.4						
15	3						SPARE - NOT MIGRATED		1 6D		1 5.6						
15	3						SPARE - NOT MIGRATED		1 6D		1 7.8						
15	3						SPARE - NOT MIGRATED		1 6D		2 1.2						
15	3						SPARE - NOT MIGRATED		1 6D		2 3.4						
15	3						SPARE - NOT MIGRATED		1 6D		2 5.6						
15	3						SPARE - NOT MIGRATED		1 6D		2 7.8						
15	3						SPARE - NOT MIGRATED		1 7C		1 1.2						
15	3						SPARE - NOT MIGRATED		1 7C		1 3.4						
15	3						SPARE - NOT MIGRATED		1 7C		1 5.6						
15	3						SPARE - NOT MIGRATED		1 7C		1 7.8						
15	5						SPARE - NOT MIGRATED		3 2C		1 1.2						
15	5						SPARE - NOT MIGRATED		3 2C		1 3.4						
15	5						SPARE - NOT MIGRATED		3 2C		1 5.6						
15	5						SPARE - NOT MIGRATED		3 2C		1 7.8						
15	5						SPARE - NOT MIGRATED		3 2C		2 1.2						
15	5						SPARE - NOT MIGRATED		3 2C		2 3.4						
15	5						SPARE - NOT MIGRATED		3 5C		2 7.8						
15	5						SPARE - NOT MIGRATED		3 5D		1 1.2						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
15	5						SPARE - NOT MIGRATED		3 5D		1 3,4						
15	5						SPARE - NOT MIGRATED		3 5D		1 7,8						
15	5						SPARE - NOT MIGRATED		3 5D		2 1,2						
15	5						SPARE - NOT MIGRATED		3 5D		2 3,4						
15	5						SPARE - NOT MIGRATED		3 5D		2 5,6						
15	5						SPARE - NOT MIGRATED		3 5D		2 7,8						
15	5						SPARE - NOT MIGRATED		3 6C		1 1,2						
15	5						SPARE - NOT MIGRATED		3 6C		1 3,4						
15	5						SPARE - NOT MIGRATED		3 6C		1 5,6						
15	5						SPARE - NOT MIGRATED		3 6C		1 7,8						
15	5						SPARE - NOT MIGRATED		3 6C		2 1,2						
15	5						SPARE - NOT MIGRATED		3 6C		2 3,4						
15	5						SPARE - NOT MIGRATED		3 6C		2 5,6						
15	5						SPARE - NOT MIGRATED		3 6C		2 7,8						
15	5						SPARE - NOT MIGRATED		3 6D		1 1,2						
15	5						SPARE - NOT MIGRATED		3 6D		1 3,4						
15	5						SPARE - NOT MIGRATED		3 6D		1 5,6						
15	5						SPARE - NOT MIGRATED		3 6D		1 7,8						
15	5						SPARE - NOT MIGRATED		3 6D		2 1,2						
15	5						SPARE - NOT MIGRATED		3 6D		2 3,4						
15	5						SPARE - NOT MIGRATED		3 6D		2 5,6						
15	5						SPARE - NOT MIGRATED		3 6D		2 7,8						
17	3						SPARE - NOT MIGRATED		5 2C		1 1,2						
17	3						SPARE - NOT MIGRATED		5 2C		1 3,4						
17	3						SPARE - NOT MIGRATED		5 2C		1 5,6						
17	3						SPARE - NOT MIGRATED		5 2C		1 7,8						
17	3						SPARE - NOT MIGRATED		5 2C		2 1,2						
17	3						SPARE - NOT MIGRATED		5 2C		2 3,4						
17	3						SPARE - NOT MIGRATED		5 2C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 2C		2 7,8						
17	3						SPARE - NOT MIGRATED		5 2D		1 1,2						
17	3						SPARE - NOT MIGRATED		5 2D		1 3,4						
17	3						SPARE - NOT MIGRATED		5 2D		1 5,6						
17	3						SPARE - NOT MIGRATED		5 2D		1 7,8						
17	3						SPARE - NOT MIGRATED		5 2D		2 1,2						
17	3						SPARE - NOT MIGRATED		5 2D		2 3,4						
17	3						SPARE - NOT MIGRATED		5 2D		2 5,6						
17	3						SPARE - NOT MIGRATED		5 2D		2 7,8						
17	3						SPARE - NOT MIGRATED		5 3C		1 1,2						
17	3						SPARE - NOT MIGRATED		5 3C		1 3,4						
17	3						SPARE - NOT MIGRATED		5 3C		1 5,6						
17	3						SPARE - NOT MIGRATED		5 3C		1 7,8						
17	3						SPARE - NOT MIGRATED		5 3C		2 1,2						
17	3						SPARE - NOT MIGRATED		5 3C		2 3,4						
17	3						SPARE - NOT MIGRATED		5 3C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 3C		2 7,8						
17	3						SPARE - NOT MIGRATED		5 3D		1 1,2						
17	3						SPARE - NOT MIGRATED		5 3D		1 3,4						
17	3						SPARE - NOT MIGRATED		5 3D		1 5,6						
17	3						SPARE - NOT MIGRATED		5 3D		1 7,8						
17	3						SPARE - NOT MIGRATED		5 3D		2 1,2						
17	3						SPARE - NOT MIGRATED		5 3D		2 3,4						
17	3						SPARE - NOT MIGRATED		5 3D		2 5,6						
17	3						SPARE - NOT MIGRATED		5 3D		2 7,8						
17	3						SPARE - NOT MIGRATED		5 4C		1 1,2						
17	3						SPARE - NOT MIGRATED		5 4C		1 3,4						
17	3						SPARE - NOT MIGRATED		5 4C		1 5,6						
17	3						SPARE - NOT MIGRATED		5 4C		1 7,8						
17	3						SPARE - NOT MIGRATED		5 4C		2 1,2						
17	3						SPARE - NOT MIGRATED		5 4C		2 3,4						
17	3						SPARE - NOT MIGRATED		5 4C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 4C		2 7,8						
17	3						SPARE - NOT MIGRATED		5 4D		1 3,4						
17	3						SPARE - NOT MIGRATED		5 4D		1 7,8						
17	3						SPARE - NOT MIGRATED		5 4D		2 3,4						
17	3						SPARE - NOT MIGRATED		5 4D		2 7,8						
17	3						SPARE - NOT MIGRATED		5 5C		1 3,4						
17	3						SPARE - NOT MIGRATED		5 5C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 5C		2 7,8						
17	3						SPARE - NOT MIGRATED		5 5D		1 1,2						
17	3						SPARE - NOT MIGRATED		5 5D		1 3,4						
17	3						SPARE - NOT MIGRATED		5 5D		1 5,6						
17	3						SPARE - NOT MIGRATED		5 5D		1 7,8						
17	3						SPARE - NOT MIGRATED		5 7C		2 1,2						
17	3						SPARE - NOT MIGRATED		5 7C		2 3,4						
17	3						SPARE - NOT MIGRATED		5 7C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 7C		2 7,8						
17	3						SPARE - NOT MIGRATED		5 8C		2 1,2						
17	3						SPARE - NOT MIGRATED		5 8C		2 3,4						
17	3						SPARE - NOT MIGRATED		5 8C		2 5,6						
17	3						SPARE - NOT MIGRATED		5 8C		2 7,8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Digital Outputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	1 State	0 State	Alarm State	Loop Drawing
17	3						SPARE - NOT MIGRATED		5 8D		1 1.2						
17	3						SPARE - NOT MIGRATED		5 8D		1 3.4						
17	3						SPARE - NOT MIGRATED		5 8D		1 5.6						
17	3						SPARE - NOT MIGRATED		5 8D		1 7.8						
17	3						SPARE - NOT MIGRATED		5 8D		2 1.2						
17	3						SPARE - NOT MIGRATED		5 8D		2 3.4						
17	3						SPARE - NOT MIGRATED		5 8D		2 5.6						
17	3						SPARE - NOT MIGRATED		5 8D		2 7.8						
17	5						SPARE - NOT MIGRATED		7 2C		1 1.2						
17	5						SPARE - NOT MIGRATED		7 2C		1 3.4						
17	5						SPARE - NOT MIGRATED		7 2C		1 5.6						
17	5						SPARE - NOT MIGRATED		7 2C		1 7.8						
17	5						SPARE - NOT MIGRATED		7 2C		2 1.2						
17	5						SPARE - NOT MIGRATED		7 2C		2 3.4						
17	5						SPARE - NOT MIGRATED		7 5D		2 1.2						
17	5						SPARE - NOT MIGRATED		7 5D		2 3.4						
17	5						SPARE - NOT MIGRATED		7 5D		2 5.6						
17	5						SPARE - NOT MIGRATED		7 5D		2 7.8						
17	5						SPARE - NOT MIGRATED		7 6C		1 1.2						
17	5						SPARE - NOT MIGRATED		7 6C		1 3.4						
17	5						SPARE - NOT MIGRATED		7 6C		1 5.6						
17	5						SPARE - NOT MIGRATED		7 6C		1 7.8						
17	5						SPARE - NOT MIGRATED		7 7D		2 1.2						
17	5						SPARE - NOT MIGRATED		7 7D		2 3.4						
17	5						SPARE - NOT MIGRATED		7 7D		2 5.6						
17	5						SPARE - NOT MIGRATED		7 7D		2 7.8						

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
15	3	CP-S8001	RIO-S8001-1	3	0	BAS902ST	ST RAP2 PUMP SPD		1 5A		3 7.8						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	1	BAS901FT	FIT CLFR 1 RAS FLOW		1 5A		4 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	2	BAS901ST	ST RAP1 PUMP SPD		1 5A		4 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	3	BAS902FT	FIT CLFR 2 RAS FLOW		1 5A		4 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	4	OC2350	LAUNDER LEVEL		1 6A		1 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	5	BAS908FT	FIT CLFR 8 RAS FLOW		1 6A		1 7.8	24 VDC					4-20MA
15	3	CP-S8001	RIO-S8001-1	3	6	BAS954ST	ST WAP 4 PUMP SPD		1 6A		2 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	3	7	BAS903FT	FIT CLFR 3 RAS FLOW		1 6A		2 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	0	BAS903ST	ST RAP3 PUMP SPD		1 6A		2 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	1	BAS904FT	FIT CLFR 4 RAS FLOW		1 6A		2 7.8						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	2	BAS904ST	ST RAP4 PUMP SPD		1 6A		3 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	3	BAS905FT	FIT CLFR 5 RAS FLOW		1 6A		3 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	4	BAS905ST	ST RAP5 PUMP SPD		1 6A		3 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	5	BAS906FT	FIT CLFR 6 RAS FLOW		1 6A		3 7.8						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	6	BAS906ST	ST RAP6 PUMP SPD		1 6A		4 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	4	7	BAS907FT	FIT CLFR 7 RAS FLOW		1 6A		4 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	0	BAS907ST	ST RAP7 PUMP SPD		1 6A		4 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	1	BAS908ST	ST RAP8 PUMP SPD		1 7A		1 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	2	BAS909FT	FIT CLFR 9 RAS FLOW		1 7A		1 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	3	BAS909ST	ST RAP9 PUMP SPD		1 7A		1 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	4	BAS910FT	FIT CLFR10 RAS FLOW		1 7A		1 7.8	24 VDC					4-20MA
15	3	CP-S8001	RIO-S8001-1	5	5	BAS910ST	ST RAP10 PUMP SPD		1 7A		2 1.2						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	6	BAS941FT	SEC TRAIN 3 WAS FLOW		1 7A		2 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	5	7	BAS942FT	SEC TRAIN 2 WAS FLOW		1 7A		2 5.6						4-20MA
15	3	CP-S8001	RIO-S8001-1	6	0	BAS943FT	SEC TRAIN 1 WAS FLOW		1 7A		2 7.8						4-20MA
15	3	CP-S8001	RIO-S8001-1	6	1	BAS951ST	ST WAP 1 PUMP SPD		1 7A		3 3.4						4-20MA
15	3	CP-S8001	RIO-S8001-1	6	2	BAS952ST	ST WAP 2 PUMP SPD		1 7A		3 7.8						4-20MA
15	3	CP-S8001	RIO-S8001-1	6	3	BAS953ST	ST WAP 3 PUMP SPD		1 7A		4 3.4						4-20MA
15	5	CP-S8001	RIO-S8001-1	6	4	BBS513XT	MXS 2S PF IND		3 5A		4 1.2						4-20MA
15	5	CP-S8001	RIO-S8001-1	6	5	BBS476LT	LIT SCUM TK 7 LVL		3 5A		4 3.4						4-20MA
15	5	CP-S8001	RIO-S8001-1	6	6	BBS466LT	LIT SCUM TK 6 LVL		3 5A		4 5.6						4-20MA
15	5	CP-S8001	RIO-S8001-1	6	7	BBS486LT	LIT SCUM TK 8 LVL		3 6A		1 1.2						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	0	BBS496LT	LIT SCUM TK 9 LVL		3 6A		1 3.4						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	1	BBS501XT			3 6A		1 7.8						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	2	BBS503XT			3 6A		2 3.4						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	3	BBS505XT	MCC 3A PF IND		3 6A		2 7.8						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	4	BBS506ET	MCC4A FAN RM VOLT IND		3 6A		3 1.2						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	5	BBS507XT			3 6A		3 3.4						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	6	BBS508ET	MCC5A FN RM VOLT IND		3 6A		3 5.6						4-20MA
15	5	CP-S8002	RIO-S8001-4	1	7	BBS509XT			3 6A		3 7.8						4-20MA
15	5	CP-S8002	RIO-S8001-4	2	0	BBS510ET	MCC1S VOLT IND		3 6A		4 1.2						4-20MA
15	5	CP-S8002	RIO-S8001-4	2	1	BBS511XT			3 6A		4 3.4						4-20MA
15	5	CP-S8002	RIO-S8001-4	2	2	BBS512ET	MCC2S VOLT IND		3 6A		4 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	2	3	BCR830ZT	REACTOR 3A RAS VALVE POSITION)		5 6A		1 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	2	4	BCR835FT	REACTOR 3B RAS FLOW)		5 6A		1 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	2	5	BCR835ZT	REACTOR 3B RAS VALVE POSITION)		5 6A		1 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	2	6	BCS918ST	ST RAP18 PUMP SPD)		5 6A		2 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	2	7	BCS913LT	LIT CLFR13 RAS LVL)		5 6A		2 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	0	BCS911FT	FIT CLFR11 RAS FLOW)		5 6A		3 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	1	BCS911LT	LIT CLFR11 RAS LVL)		5 6A		3 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	2	BCS911ST	ST RAP11 PUMP SPD)		5 6A		3 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	3	BCS912FT	FIT CLFR12 RAS FLOW)		5 6A		3 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	4	BCS912LT	LIT CLFR12 RAS LVL)		5 6A		4 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	5	BCS912ST	ST RAP12 PUMP SPD)		5 6A		4 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	6	BCS913FT	FIT CLFR13 RAS FLOW)		5 6A		4 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	3	7	BCR830FT	REACTOR 3A RAS FLOW)		5 5A		2 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	0	BCR810FT	REACTOR 1A RAS FLOW)		5 5A		2 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	1	BCR810ZT	REACTOR 1A RAS VALVE POSITION)		5 5A		3 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	2	BCR815FT	REACTOR 1B RAS FLOW)		5 5A		3 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	3	BCR815ZT	REACTOR 1B RAS VALVE POSITION)		5 5A		3 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	4	BCR820FT	REACTOR 2A RAS FLOW)		5 5A		3 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	5	BCR820ZT	REACTOR 2A RAS VALVE POSITION)		5 5A		4 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	6	BCR825FT	REACTOR 2B RAS FLOW)		5 5A		4 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	4	7	BCR825ZT	REACTOR 2B RAS VALVE POSITION)		5 5A		4 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	0	BCS913ST	ST RAP13 PUMP SPD)		5 7A		1 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	1	BCS914FT	FIT CLFR14 RAS FLOW)		5 7A		1 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	2	BCS914LT	LIT CLFR14 RAS LVL)		5 7A		1 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	3	BCS914ST	ST RAP14 PUMP SPD)		5 7A		1 7.8	24 VDC					4-20MA
17	3	CP-S8002	RIO-S8001-4	5	4	BCS915FT	FIT CLFR15 RAS FLOW)		5 7A		2 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	5	BCS915LT	LIT CLFR15 RAS LVL)		5 7A		2 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	6	BCS915ST	ST RAP15 PUMP SPD)		5 7A		2 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	5	7	BCS916FT	FIT CLFR16 RAS FLOW)		5 7A		2 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	0	BCS916LT	LIT CLFR16 RAS LVL)		5 7A		3 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	1	BCS916ST	ST RAP16 PUMP SPD)		5 7A		3 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	2	BCS917FT	FIT CLFR17 RAS FLOW)		5 7A		3 5.6						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	3	BCS917LT	LIT CLFR17 RAS LVL)		5 7A		3 7.8						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	4	BCS917ST	ST RAP17 PUMP SPD)		5 7A		4 1.2						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	5	BCS918FT	FIT CLFR18 RAS FLOW)		5 7A		4 3.4						4-20MA
17	3	CP-S8002	RIO-S8001-4	6	6	BCS918LT	LIT CLFR18 RAS LVL)		5 7A		4 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	6	7	BDS446LT	LIT SCUM TK 4 LVL)		7 5A		3 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	0	BDS416LT	LIT SCUM TK 1 LVL)		7 5A		4 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	1	BDS426LT	LIT SCUM TK 2 LVL)		7 5A		4 3.4						4-20MA

PROCESS CONTROL SYSTEM INPUT/OUTPUT LIST - SECONDARY CLARIFIERS

Analog Inputs

DCS PCU	DCS Module	PCS Cabinet	PCS Rack	PCS Slot	PCS Point	Tag	Description	Cabinet	Row	TB	TB Wire	Voltage	Current	EU	Scale	Alarm State	Loop Drawing
17	5	CP-S8002	RIO-S8001-4	7	2	BDS436LT	LIT SCUM TK 3 LVL)	7	5A		4 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	3	BDS926ST	ST RAP26 PUMP SPD)	7	6A		2 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	4	BDS921LT	LIT CLFR21 RAS LVL)	7	6A		2 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	5	BDS456LT	LIT SCUM TK 5 LVL)	7	6A		2 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	6	BDS919FT	FIT CLFR19 RAS FLOW)	7	6A		3 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	7	7	BDS919LT	LIT CLFR19 RAS LVL)	7	6A		3 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	0	BDS919ST	ST RAP19 PUMP SPD)	7	6A		3 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	1	BDS920FT	FIT CLFR20 RAS FLOW)	7	6A		3 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	2	BDS920LT	LIT CLFR20 RAS LVL)	7	6A		4 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	3	BDS920ST	ST RAP20 PUMP SPD)	7	6A		4 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	4	BDS921FT	FIT CLFR21 RAS FLOW)	7	6A		4 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	5	BDS921ST	ST RAP21 PUMP SPD)	7	7A		1 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	6	BDS922FT	FIT CLFR22 RAS FLOW)	7	7A		1 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	8	7	BDS922LT	LIT CLFR22 RAS LVL)	7	7A		1 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	0	BDS922ST	ST RAP22 PUMP SPD)	7	7A		1 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	1	BDS923FT	FIT CLFR23 RAS FLOW)	7	7A		2 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	2	BDS923LT	LIT CLFR23 RAS LVL)	7	7A		2 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	3	BDS923ST	ST RAP23 PUMP SPD)	7	7A		2 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	4	BDS924FT	FIT CLFR24 RAS FLOW)	7	7A		2 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	5	BDS924LT	LIT CLFR24 RAS LVL)	7	7A		3 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	6	BDS924ST	ST RAP24 PUMP SPD)	7	7A		3 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	9	7	BDS925FT	FIT CLFR25 RAS FLOW)	7	7A		3 5.6						4-20MA
17	5	CP-S8002	RIO-S8001-4	10	0	BDS925LT	LIT CLFR25 RAS LVL)	7	7A		3 7.8						4-20MA
17	5	CP-S8002	RIO-S8001-4	10	1	BDS925ST	ST RAP25 PUMP SPD)	7	7A		4 1.2						4-20MA
17	5	CP-S8002	RIO-S8001-4	10	2	BDS926FT	FIT CLFR26 RAS FLOW)	7	7A		4 3.4						4-20MA
17	5	CP-S8002	RIO-S8001-4	10	3	BDS926LT	LIT CLFR26 RAS LVL)	7	7A		4 5.6						4-20MA
15	3	CP-S8002	RIO-S8001-4	10	4	SPARE		1	5A		1 1.2						4-20MA
15	3	CP-S8002	RIO-S8001-4	10	5	SPARE		1	5A		1 3.4						4-20MA
15	3	CP-S8002	RIO-S8001-4	10	6	SPARE		1	5A		1 5.6						4-20MA
15	3	CP-S8002	RIO-S8001-4	10	7	SPARE		1	5A		1 7.8	24 VDC					4-20MA
15	3	CP-S8002	RIO-S8001-4	11	0	SPARE		1	5A		2 1.2						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	1	SPARE		1	5A		2 3.4						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	2	SPARE		1	5A		2 5.6						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	3	SPARE		1	5A		2 7.8						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	4	SPARE		1	5A		3 1.2						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	5	SPARE		1	5A		3 3.4						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	6	SPARE		1	5A		3 5.6						4-20MA
15	3	CP-S8002	RIO-S8001-4	11	7	SPARE		1	6A		1 3.4						4-20MA
15	3	SPARE				SPARE		1	6A		1 5.6						4-20MA
15	3	SPARE				SPARE		1	7A		3 1.2						4-20MA
15	3	SPARE				SPARE		1	7A		3 5.6						4-20MA
15	3	SPARE				SPARE		1	7A		4 1.2						4-20MA
15	3	SPARE				SPARE		1	7A		4 5.6						4-20MA
15	5	SPARE				SPARE		3	5A		1 1.2						4-20MA
15	5	SPARE				SPARE		3	5A		1 3.4						4-20MA
15	5	SPARE				SPARE		3	5A		1 5.6						4-20MA
15	5	SPARE				SPARE		3	5A		1 7.8						4-20MA
15	5	SPARE				SPARE		3	5A		2 1.2						4-20MA
15	5	SPARE				SPARE		3	5A		2 3.4						4-20MA
15	5	SPARE				SPARE		3	5A		2 5.6						4-20MA
15	5	SPARE				SPARE		3	5A		2 7.8						4-20MA
15	5	SPARE				SPARE		3	5A		3 1.2						4-20MA
15	5	SPARE				SPARE		3	5A		3 3.4						4-20MA
15	5	SPARE				SPARE		3	5A		3 5.6						4-20MA
15	5	SPARE				SPARE		3	5A		3 7.8						4-20MA
17	3	SPARE				SPARE		5	6A		1 7.8	24 VDC					4-20MA
17	3	SPARE				SPARE		5	6A		2 1.2						4-20MA
17	3	SPARE				SPARE		5	6A		2 3.4						4-20MA
17	3	SPARE				SPARE		5	5A		1 1.2						4-20MA
17	3	SPARE				SPARE		5	5A		1 3.4						4-20MA
17	3	SPARE				SPARE		5	5A		1 5.6						4-20MA
17	3	SPARE				SPARE		5	5A		1 7.8	24 VDC					4-20MA
17	3	SPARE				SPARE		5	5A		2 1.2						4-20MA
17	3	SPARE				SPARE		5	5A		2 3.4						4-20MA
17	5	SPARE				SPARE		7	5A		1 1.2						4-20MA
17	5	SPARE				SPARE		7	5A		1 3.4						4-20MA
17	5	SPARE				SPARE		7	5A		1 5.6						4-20MA
17	5	SPARE				SPARE		7	5A		1 7.8						4-20MA
17	5	SPARE				SPARE		7	5A		2 1.2						4-20MA
17	5	SPARE				SPARE		7	5A		2 3.4						4-20MA
17	5	SPARE				SPARE		7	5A		2 5.6						4-20MA
17	5	SPARE				SPARE		7	5A		2 7.8						4-20MA
17	5	SPARE				SPARE		7	5A		3 1.2						4-20MA
17	5	SPARE				SPARE		7	5A		3 3.4						4-20MA
17	5	SPARE				SPARE		7	5A		3 5.6						4-20MA
17	5	SPARE				SPARE		7	6A		1 1.2						4-20MA
17	5	SPARE				SPARE		7	6A		1 3.4						4-20MA
17	5	SPARE				SPARE		7	6A		1 5.6						4-20MA
17	5	SPARE				SPARE		7	6A		1 7.8						4-20MA
17	5	SPARE				SPARE		7	6A		2 1.2						4-20MA

