

MCC Schedule (R1)

Motor Control Centre																	
Motor					Stator							Over-			Detail		
MCC	Equip.	Description	Location	HP/kW	Volt/ Phase	Size	Type	Man.	Mag.	S/S	PL	HOA	Current Breaker	Feeder	Cable Type	Schem DWG	Remarks
DAF Process - Area T - MCC 1T and 2T																	
1T	T110-DAF	DAF Control Panel	DAF	40kW	600/3								100A-3P	3/C #3	Teck		Package supply skid complete with control panel, wiring, motor starters and VFD unit Skimmer VFD unit to be connected by Div 16
2T	T120-DAF	DAF Control Panel	DAF	40kW	600/3								100A-3P	3/C #3	Teck		Package supply skid complete with control panel, wiring, motor starters and VFD unit Skimmer VFD unit to be connected by Div 16
1T	T125-SBP	DAF Subnatant Pump No.1	DAF	7.5kW	600/3								30A-3P	3/C#10	Teck		VFD Supplied by Div. 11
2T	T126-SBP	DAF Subnatant Pump No. 2	DAF	7.5kW	600/3								30A-3P	3/C#10	Teck		VFD Supplied by Div. 11
1T	T131-POF	DAF Polymer Pump No. 1	Poly	0.38kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 11
2T	T132-POF	DAF Polymer Pump No. 2	Poly	0.38kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 11
1T	T136-POF	CEPT Polymer Pump No. 1	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
2T	T137-POF	CEPT Polymer Pump No. 2	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
1T	T141-MP	FeC13 Pump (Secondary polishing) No.1	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
2T	T142-MP	FeC13 Pump (Secondary polishing) No.2	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
1T	T143-MP	FeC13Pump (Odour/CEPT) No. 3	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
2T	T144-MP	FeC13Pump (Odour/CEPT) No. 4	Poly	0.75kW	600/3								15A-3P	3/C #12	Teck		VFD Supplied by Div. 11
1T	T130-POL	DAF Polymer System 1	Poly		600/3								30A-3P	3/C #10	Teck		Package Supply. Div 16 to wire and connect
2T	T135-POL	CEPT Polymer System 2	Poly		600/3								30A-3P	3/C #10	Teck		Package Supply. Div 16 to wire and connect
DAF Mechanical - Area T - MCC-1T and 2T																	
1T	T600-EF	Make-up Air Unit Return	Mech Rm	5.6kW	600/3								20A-3P	3/C #10	Teck		VFD Supplied by Div. 15
1T	T600-SF	Make-up Air Unit Supply	Mech Rm	7.5kW	600/3								25A-3P	3/C #10	Teck		VFD Supplied by Div. 15
2T	T605-EF	Make-up Air Unit Return	Mech Rm	3.75kW	600/3								15A-3P	3/C #10	Teck		VFD Supplied by Div. 15
2T	T605-SF	Make-up Air Unit Supply	Mech Rm	5.6kW	600/3								20A-3P	3/C #10	Teck		VFD Supplied by Div. 15
2T	T610-AHU	Air Handling Unit (Fan)	Elect Rm	1.1kW	600/3	1	FVNR		*		*	*	3MCP	3/C#12	Teck		
2T	T610-AHU	Air Handling Unit (Heater)	Elect Rm	4.0kW	600/3								15A-3P	3/C#12	Teck		
1T	T640-CA	Air Compressor	Poly	3.75kWx2	600/3								30A-3P	3/C#12	Teck		Starter Supplied with Compressor
1T	T665-GP	Glycol Feed Pump	Poly	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2T	T670-GP	Glycol Feed Pump	Poly	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1T	T680-DWP	Domestic Water Pump	Poly	1.5kW	600/3								15A-3P	3/C#12	Teck		Pump Controller supplied with pumps Div. 16 to wire and connect
	T685-DWP	Domestic Water Pump	Poly	1.5kW	600/3												
2T	T700-SMP	Sump Pump	Poly	1.1kW	600/3								15A-3P	3/C#12	Teck		Pump Controller supplied with pumps Div. 16 to wire and connect
	T705-SMP	Sump Pump	Poly	1.1kW	600/3												
1T	XFMR-TAA	Transformer	Elect Rm	30kVA	600/3								40A-3P	3/C#8	Teck		
Headworks Process - Area H - Existing MCC-1H and 2H																	
1H	H410-STP	Sludge Transfer Pump (Up-grade)	Headworks	37.5kW	600/3	3	FVNR		*		*	*	100MCP	3/C#4	Teck		Existing Unit to be Replaced
2H	H420-STP	Sludge Transfer Pump (Up-grade)	Headworks	37.5kW	600/3	3	FVNR		*		*	*	100MCP	3/C#4	Teck		Existing Unit to be Replaced
Headworks Mechanical - Area H - Existing MCC-1H and 2H																	
2H	H710-EF	H.W./DAF Exhaust Fan	Headworks	0.38kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
2H	H715-EF	DAF Building Exhaust Fan	Headworks	3.75kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
1H	HWT-1	Hot Water Heater	Headworks	12kW	600/3								15A-3P	3/C#12	Teck		
1H	H640-AHU	Air Handling Unit	Headworks	0.75kW	600/3	1	FVNR		*		*	*	7MCP	3/C#12	Teck		
Primary Clarifier - Area P - Existing MCC 1H and 2H																	
1H	P250-SLP	Primary Sludge Pump No.1	Primary	3.75kW	600/3								15A-3P	3/C#10	Teck		VFD Supplied by Div. 11
2H	P260-SLP	Primary Sludge Pump No.2	Primary	3.75kW	600/3								15A-3P	3/C#10	Teck		VFD Supplied by Div. 11
1H	P270-P	Emergency Sump Pump	Primary	11.2kW	600/3	2	FVNR		*		*	*	50MCP	3/C#10	Teck		Controls Supplied by Div. 11
Fermenter Process - Area F - Existing MCC 1H and 2H																	
1H	F550-FM	Primary Sludge Fermenter No. 1	Fermenter	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2H	F560-FM	Primary Sludge Fermenter No. 2	Fermenter	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1H	F551-P	Fermenter Sludge Pump	Fermenter	5kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 11
2H	F552-P	Fermenter Sludge Pump	Fermenter	5kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 11

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MCC	Equip. No.	Description	Location	HP/kW	Volt/Phase	Size	Type	Man.	Mag.	S/S	PL	HOA	Current Breaker	Feeder	Cable Type	Schem DWG	Remarks
1H	F556-P	Fermenter Supernatant Pump	Fermenter	5.6kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 11
2H	F557-P	Fermenter Supernatant Pump	Fermenter	5.6kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 11
2H	F558-P	Fermenter Supernatant Pump	Fermenter	5.6kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 11
Fermenter Mechanical - Area F - Existing MCC 1H and 2H																	
2H	F600-SF	Make-up Air Unit Supply Fan	Fermenter	5.6kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 15
2H	F600-EF	Make-up Air Unit Exhaust Fan	Fermenter	5.6kW	600/3								20A-3P	3/C#12	Teck		VFD Supplied by Div. 15
1H	F630-SMP	Sump Pump	Fermenter	0.75kW	600/3								15A-3P	3/C#12	Teck		Pump Controller supplied with pumps
	F640-SMP	Sump Pump	Fermenter	0.75kW	600/3												Div. 16 to wire and connect
1H	F650-EF	Fermenter Exhaust Fan	Fermenter	0.38kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
2H	F660-EF	Fermenter T.O. Exhaust Control Fan	Fermenter	0.38kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
Secondary Clarifier - Area S - Existing MCC 1S and 2S																	
1S	S510-CM	Secondary Clarifier No.1	Sec. Clar	0.75kW	600/3												Existing Unit to be replaced
2S	S520-CM	Secondary Clarifier No.2	Sec. Clar.	0.75kW	600/3												Existing Unit to be replaced
1S	S530-CM	Secondary Clarifier No. 3	Sec. Clar.	0.75kW	600/3	1	FVNR		*		*	*	3MCP	3/C#12	Teck		
1S	S710-RAP	RAS Pump	Sec. Clar.	22.5kW	600/3												Existing Unit to be replaced
2S	S720-RAP	RAS Pump	Sec. Clar.	22.5kW	600/3												Existing Unit to be replaced
1S	S730-RAP	RAS Pump	Sec. Clar.	22.5kW	600/3								80A-3P	3/C#4	Teck		Existing Unit to be replaced
1S	S740-RAP	RAS Pump	Sec. Clar.	22.5kW	600/3								80A-3P	3/C#4	Teck		VFD Supplied by Div. 11
2S	S750-RAP	RAS Pump	Sec. Clar.	22.5kW	600/3								80A-3P	3/C#4	Teck		VFD Supplied by Div. 11
1S	S230-FWP	Flushing Water Pump	Sec. Clar.	64kW	600/3								200A-3P	3C#1	Teck		Existing Unit to be replaced-VFD Supplied by Div. 11
Bioreactor Mechanical Room Mechanical - Area S - MCC-1S and 2S																	
1S	S750-SF	Make-up Air Unit-Supply Fan	Mech Rm	15kW	600/3								50A-3P	3/C#8	Teck		VFD Supplied by Div. 15
1S	S750-EF	Make-up Air Unit-Return Fan	Mech Rm	15kW	600/3								50A-3P	3/C#8	Teck		VFD Supplied by Div. 15
1S	S770-GP	Glycol Circ. Pump	Mech Rm	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2S	S775-GP	Glycol Circ. Pump	Mech Rm	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2S	XFMR-SB	Transformer	Elect Rm	30kW	600/3								40A-3P	3/C#8	Teck		
Bioreactor Process - Area S - MCC 1SB and 2SB																	
1SB	S760-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1SB	S761-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1SB	S762-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1SB	S763-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2SB	S765-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2SB	S766-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2SB	S767-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
2SB	S768-MXR	Bioreactor Mixer	Bioreactor	3.75kW	600/3	1	FVNR		*		*	*	15MCP	3/C#12	Teck		
1SB	S770-P	Mixed Liquor Nitrified Recycle Pump	Bioreactor	11.5kW	600/3								40A-3P	3/C#8	Teck		VFD Supplied by Div. 11
2SB	S771-P	Mixed Liquor Nitrified Recycle Pump	Bioreactor	11.5kW	600/3								40A-3P	3/C#8	Teck		VFD Supplied by Div. 11
1SB	S810-WAP	WAS Pump	Bio. Corr.	5kW	600/3								20A-3P	3/C#10	Teck		VFD Supplied by Div. 11
2SB	S820-WAP	WAS Pump	Bio. Corr.	5kW	600/3								20A-3P	3/C#10	Teck		VFD Supplied by Div. 11
Bioreactor Mechanical - Area S - MCC 1SB and 2SB																	
1SB	S638-EF	Aeration Basen No. 1 Exhaust Fan	East Corr.	0.75kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
2SB	S639-EF	Aeration Basen No. 2 Exhaust Fan	East Corr.	0.75kW	600/3								15A-3P	3/C#12	Teck		VFD Supplied by Div. 15
2SB	S780-AHU	Air Handling Unit (Fan)	Elect Rm	0.75kW	600/3	1	FVNR		*		*	*	3MCP	3/C#12	Teck		
2SB	S780-AHU	Air Handling Unit (Heater)	Elect Rm	3.0kW	600/3								15A-3P	3/C#12	Teck		
2SB	S768-SMP	Sump Pump	Bio. Corr.	1.1kW	600/3								15A-3P	3/C#12	Teck		Pump Controller supplied with pumps
2SB	S769-SMP	Sump Pump	Bio. Corr.	1.1kW	600/3								15A-3P	3/C#12	Teck		Div. 16 to wire and connect
2SB		Overhead Door Controller	Bio. Corr.	0.38kW	600/3								15A-3P	3/C#12	Teck		
2SB		Welding Receptacle	Bioreactor		600/3								60A-3P	3/C#6	Teck		
1SB	XFMR-SAB	Transformer	Elect Rm	30kVA	600/3								40A-3P	3/C#8	Teck		