

	1	2	3	4	5
A	600 VOLT INCOMING 7C-01 C/W 3 PH AMMETER	DAF CLARIFIER CARRIAGE DRIVE CCT # 7C-04 EQ. #90-035-200	DAF CLARIFIER SLUDGE PUMP CCT # 7C-06 EQ. #90-095-031	45 KVA 3PH FVNR 600/208/120V LTC FVNR FNL LFP-7C-08A CCT# 7C-08A	SPARE
B				60A FDS	30A FDS
C		NOTE 7	NOTE 7	WELD. RECEPT. NORTH-WEST CLARIFIER SUPPORT COL. CCT# 7C-09A	SPARE
D				60A FDS	60A FDS
E	* DAF CLARIFIER RECYCLE PUMP CCT # 7C-02 EQ. #90-095-030	30A FDS	30A FDS	DAF CLARIFIER BUILDING 92KW HEATER CCT # 7C-10 EQ. #XX-XXX-XXX	DAF CLARIFIER CHEMICAL MAKE-UP UNIT CCT # 7C-15 EQ. #XX-XXX-XXX
F		DAF CLARIFIER SCOOP DRIVE CCT # 7C-05 EQ. #90-035-201	DAF CLARIFIER ??? CCT # 7C-07 EQ. #90-??-??	200A FDS	30A FDS
G		NOTE 7	NOTE 7	SPARE	DAF CLARIFIER AIR COMPRESSOR #1 CCT # 7C-16 EQ. #90-085-010
H					SPARE
J	SIZE 4, FVNR, 75 HP			SIZE 1, FVNR ?? HP	SIZE 1, FVNR ?? HP
K				SPARE	SPARE
L	SPARE			SPARE	SPARE
M	SIZE 1, FVNR ?? HP	30A FDS	30A FDS	SIZE 2, FVNR ?? HP	SIZE 2, FVNR ?? HP

* - C/W CURRENT TRANSMITTER

MCC 7C (FRONT ONLY)

EQ. #XX-XXX-XXX	LINE 1 LETTERING 5/16"
DAF CLARIFIER	LINE 2 LETTERING 5/16"
RECYCLE PUMP	LINE 3 LETTERING 5/16"
CCT # 7C-02	LINE 4 LETTERING 3/8"

BLACK TAG C/W WHITE LETTERING
2" x 4" TAG

TYPICAL MCC STARTER/DISCONNECT TAG

MANUFACTURER - ALLEN BRADLEY

ENCLOSURE:	NEMA TYPE	12
	FRONT ONLY	X
	BACK TO BACK	N/A
FEEDER ENTRY:	TOP: FIRST SECTION	X
	BOTTOM: FIRST SECTION	N/A
	DUAL 800 AMP KIRK KEY INTERLOCK MAIN SW	N/A
	NUMBER OF SECTIONS THIS PHASE	5
	DUAL CT AMMETER CIRCUIT	X
	3-PHASE AMMETER SWITCH	X
	800 : 5 CT	X
SERVICE VOLTAGE:	VOLTS	600
	PH	3
	HZ	60
	WIRE	3
HORIZONTAL BUS RATING:		800 AMPS
VERTICAL BUS RATING:		600 AMPS
BUS BRACING:	AMPS SYMMETRICAL	65000

CONTROL VOLTAGE:	VOLTS	120 VAC, 1PH
INDIVIDUAL CONTROL:	TRANSFORMER	YES X NO
	PRIMARY FUSES	YES X NO
	SECONDARY FUSES	YES X NO
	100 WATT EXTRA CAPACITY	YES X NO
WIRING:	LAKE UTOPIA PAPER STANDARD, SEE ATTACHED STANDARD SCHEMATICS.	YES X NO
	NEMA TYPE	B
	CLASS	1
120 VAC INTERPOSING RELAYS:	SIZE 4 STARTERS	YES X NO
	SIZE 5 STARTERS	YES X NO
POWER FUSES:	FVR & FVNR STARTERS:	VOLTS 600
		GOULD TYPE HRC-II
	DISCONNECTS:	VOLTS 600
		GOULD TYPE AJT
VFD'S:	TOSHIBA	

OVERLOAD RELAYS:	STANDARD EUTECTIC ALLOY TYPE	YES X NO
	HEATERS SUPPLIED WITH MCC	YES X NO
BUS MATERIAL:	TIN PLATED COPPER	X
FEEDER LUGS:	FEEDER SIZE	350
	TWO (2) HOLE COPPER LUGS	3/PH
GROUND BUS:	-1/4" x 1" UNPLATED COPPER, PRE-DRILLED WITH 5/16" BOLT HOLES	-10 HOLES PER MCC SECTION -BUS LOCATED IN TOP OF MCC
NOTES:	- FUSES AND OVERLOADS TO BE INSTALLED AT THE FACTORY - ALL STARTERS TO BE EQUIPPED WITH TERMINALS "+A1 & -A2" - ALL STARTERS MARKED WITH A * ON THE DRAWING SHALL BE SUPPLIED WITH A GREYSTONE CS-575-2 LOOP POWERED CURRENT TRANSMITTER. - ALL WIRES TO BE MARKED WITH TERMINAL BLOCK NUMBERS. - SIZE 1 AND 2 CONTROL TRANSFORMERS TO BE MOUNTED BEHIND THE CONTACTOR. - ALL STARTERS TO BE NEMA RATED - ALL VFD'S C/W 2- 4-20ma ISOLATED OUTPUTS (SPEED CURRENT), 1- 4-20ma (SPEED REFERENCE), 3% INPUT AND OUTPUT LINE REACTORS AND 115V AC INTERFACE CARD.	
MOTOR LOAD:	AMPS	HP
MISCELLANEOUS LOAD:	AMPS	HP
TOTAL CONNECTED LOAD:	AMPS	HP

- NOTES:**
- MCC SHALL CONSIST OF 5 SECTIONS OF MCC.
 - SHIPPING SPLITS WILL BE IN 2 AND 3 SECTIONS.
 - ALL LAMACOIDS SHALL BE BLACK WITH WHITE LETTERS, 2"H x 4"W. LETTERS 5/16", FIRST LINE IS EQUIPMENT NUMBER, 2nd AND 3rd LINE IS DESCRIPTION, LINE 4 SHALL BE THE CIRCUIT NUMBER, LETTERING SHALL BE 3/8" HIGH.
 - NAMEPLATES ARE INSTALLED IN THE UPPER LEFT CORNER OF THE STARTER DISCONNECT DOORS.
 - FUSES SHALL COME INSTALLED IN MCC STARTERS AND DISCONNECTS.
 - OVERLOADS SHALL COME INSTALLED IN STARTERS.
 - CUSTOM UNIT SHALL BE 30A FDS MOUNTED ON UPPER RIGHT MOUNTING PLATE CORNER. ADDITIONAL MOUNTING PLATE SPACE RESERVED FOR CUSTOMER EQUIPMENT.

No.	DATE	BY	DESCRIPTION	CHKD.
1	31OCT 2005	AWL	ISSUED FOR CONSTRUCTION. REV.1 REVISED AS CLOUDED ON DRAWING.	
0	18OCT 2005	AWL	ISSUED FOR CONSTRUCTION	

REVISIONS

DWG. No.	TITLE

REFERENCE DRAWINGS

<input type="checkbox"/>	PRELIMINARY - NOT FOR CONSTRUCTION
<input checked="" type="checkbox"/>	APPROVED FOR CONSTRUCTION
<input checked="" type="checkbox"/>	SUPERSEDES ALL PREVIOUS ISSUES

DESIGNED	DATE	DRAWN	DATE
AWL	16 SEPT 2005	AWL	

DESIGN	DRAFTING	SCALE
ESR	AWL	NTS

PROJECT MANAGER	SPECIFICATION No.
ESR	200531SP01

PROJECT TECHNICIAN	AWL
AWL	



ELECTRICAL ROOM MCC 7C LAYOUT

JOB No. 200531	CONSULTANT DWG. No. 200531-0900
DWG. No.	D94-5-900