

SUBSTATION ENTERPRISES				BILL OF MATERIAL	
145 Commercial Court			<b>JEA</b>		
P.O. Box 2010			SJRPP SUBSTATION		
Alabaster, AL 35007					
Ph. 205-685-2755					
Fax. 205-685-2753			PROJECT NO:	<b>CJ-6769</b>	
ITEM	QTY	MFG	CAT. NO.	DESCRIPTION	
1	36831	MID		STEEL STRUCTURES, HOT-DIPPED GALVANIZED AFTER FABRICATION AND ASSEMBLED WITHIN LIMITATIONS OF TRUCKING	
2	160	UI		ANCHOR BOLT: 1-1/4" WITH 4HHN,2FW	
2A	4	UI		ANCHOR BOLT: 3/4" WITH 2HHN,2FW	
2B	16	UI		ANCHOR BOLT: 1" x 12" HEX HEAD WITH 2HHN,2FW	
2C	4	UI		ANCHOR BOLT: 1" x 16" HEX HEAD WITH 2HHN,2FW	
4	1	VAL		230 KV H-FRAME DEAD-END, WITH ANCHOR BOLTS	
6	8	VAL		STATIC POLE, 100' POLE WITH 10' SPIKE, 20' EMBEDMENT	
8	1	P&R		SWITCH OPERATOR GROUND PLATFORM, 4x6	
8A	2	SEF	GTC2-14-SND	GROUND CONN	
11	1	CLEAV-PRICE	V2-CA	SWITCH: 35 KV 2000 AMP GROUP OPERATED VERTICAL BREAK, ALUMINUM LIVE PARTS, COMPLETE WITH WORM GEAR OPERATED, AND WITH TR-210 INSULATORS	
12	33	CLEAV-PRICE	C108A030-G22	SWITCH: 35 KV 1200 AMP HOOKSTICK DISCONNECT, VEE STYLE, WTH TINNED TERM PADS, AND TR-210 INSULATORS	
12	132	SEIB	GMB17558	BOLTS: 5/8" X 1-3/4" A325 GMB W/HN,LW	
20	6	S&C	192323-SP-Z3Z5	FUSED DISCONNECT, 26 KV SMD-40, WITH 35 KV TR-210 INSULATORS	
20	24	SEIB	GMB17558	BOLTS: 5/8" X 1-3/4" A325 GMB W/HN,LW	
20A	3	S&C	823001	FUSE UNIT, SMU-40, 1E (FOR PT'S)	
20B	3	S&C	823005	FUSE UNIT, SMU-40, 5E (FOR 25 KVA SS XFMR)	
20D	3	S&C	823200	FUSE UNIT, SMU-40, 200E (FOR CAP BANK)	

21	3	S&C	192004R2	FUSED DISCONNECT, 35 KV SMD-1A, WITH 35 KV TR-210 INSULATORS
21	12	SEIB	GMB17558	BOLTS: 5/8" X 1-3/4" A325 GMB W/HN,LW
30	3	NEWELL	SK-47845-7001	INSULATORS: 230 KV STATION POST EXTRA HIGH STRENGTH
30	12	SEIB	GCS12534	BOLTS: 3/4" X 1-1/4" GCS W/LW,FW
31	72	NEWELL	ST-231004-70001	INSULATORS: 35 KV STATION POST TR-210
31	288	SEIB	GCS100	BOLTS: 1/2" X 1" GCS W/LW,FW
40	9	HITACHI	Q021SA017B	LIGHTNING ARRESTER, 17 KV MCOV STATION POLYMER
40	27	SEIB	GMB275	BOLTS: 1/2" X 2-3/4" A325 GMB W/HN,LW
41	3	HITACHI	Q180SA144B	LIGHTNING ARRESTER, 144 KV MCOV STATION POLYMER
41	9	SEIB	GMB275	BOLTS: 1/2" X 2-3/4" A325 GMB W/HN,LW
50	3	ABB	E-923A680G03	POTENTIAL TRANSFORMER, 25 KV, 14,400 TO 120 VOLT, 120:1 RATIO, .3 W,X,Y,Z,ZZ
50	12	SEIB	GMB15038	BOLTS: 3/8" X 1-1/2" GMB W/HN,LW,FW
51	3	BY	JEA	STATION SERVICE TRANSFORMER, (50 KVA)
51	12	SEIB	GMB15058	BOLTS: 5/8" X 1-1/2" A325 GMB W/HN,LW
52	6	ABB	923A176G05	CURRENT TRANSFORMER, 35 KV, 600/1200 AMPS
52	24	SEIB	GMB15038	BOLTS: 3/8" X 1-1/2" GMB W/HN,LW,FW
53	3	GE	JYOTCF245	CCVT, 230 KV, 1050 KV BIL, 1200/2000:1:1, TYPE OTCF 245
53	12	SEIB	GMB17558	BOLTS: 5/8" X 1-3/4" A325 GMB W/HN,LW
54	1	SOU STATES	CAP38M	CAP SWITCHER, 35 KV
55	1	COOPER	CEB15029E0320A2	CAP BANK, 5.4 MVAR @ 27.57 KV-LL, 150 KV BIL
60	1160	AFL BUS		BUS: 2" IPS SCH 40 AL 6063-T6 (29 PCS @ 40')
61	1200	CHAMP		CABLE: 636 AAC
62	100	CHAMP		CABLE: 954 AAC
63	300	CHAMP		CABLE: 4/0 AAC
64	1050	CHAMP		CABLE: 397 ACSR (DAMPENING)

65	100	CUWIRE		CABLE: #4 SOLID BARE COPPER TINNED
66	850	CW		CABLE: 7#5 COPPERWELD
68	100			CABLE: 500 COPPER
70	9	SEF	TFC-20-4A	TEE CONN BOLTED 500 CU TO 4-HOLE PAD
70	36	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
70	36	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
70B	6	SMI	STCF-1126-C	TEE CONN COMP 954 AAC TO 4-HOLE PAD
70B	24	SEIB	SSB275	BOLTS: 1/2" X 2-3/4" SSB W/2BW,2FW
70B	24	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
70C	36	SEF	WFTT-5858	TEE CONN WELDED 2" AL TO 2" AL TAP
70D	9	SEF	WTF3960-4A	TEE CONN WELDED 2" AL TO 4-HOLE PAD
70E	3	SEF	ASPC-24-4-4A	TEE/SPACER FOR (2) 636 AAC TO 4-HOLE PAD, 4" SPACING
71A	18	SEF	WLI90-5858	COUPLER 90 DEG WELDED FOR 2" AL
71B	3	SEF	WSC-5858	COUPLER STRAIGHT WELDED FOR 2" AL
72	45	SEF	WFC2-24-4A	TERM CONN WELDED (2) 636 AAC TO 4-HOLE PAD
72	180	SEIB	SSB250	BOLTS: 1/2" X 2-1/2" SSB W/2BW,2FW
72	180	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72A	9	SEF	WFC-34-4A	TERM CONN WELDED 954 AAC TO 4-HOLE PAD
72A	36	SEIB	SSB275	BOLTS: 1/2" X 2-3/4" SSB W/2BW,2FW
72A	36	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72B	33	SEF	WFC2-90-24-4A	TERM CONN WELDED (2) 636 AAC TO 4-HOLE PAD AT 90 DEGREES
72B	132	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72B	132	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72C	3	PDU	AL-3BC(2)4HP-90-SP(N51)	BAR DETAIL, 90 DEG WITH 4-HOLE PADS BOTH ENDS AND 3" BOLT CIRCLE
72C	24	SEIB	GCS125	BOLTS: 1/2" X 1-1/4" GCS W/LW,FW
72D	3	SEF	CFX90-4B-3	TERM CONN EXPANSION LAMINATED WITH 4-HOLE PAD BOTH ENDS
72D	12	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72D	12	SEIB		HARDWARE: 1/2" SILICON BRONZE HN

72E	24	SEF	WFTO-58-4A	TERM CONN WELDED 2" AL TO 4-HOLE PAD
72E	96	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72E	96	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72F	33	SEF	WFT90-58-4A	TERM CONN WELDED 2" AL TO 4-HOLE PAD AT 90 DEGREES
72F	132	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72F	132	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72G	3	SEF	WFXTC-58-4A	TERM CONN WELDED 2" AL TO 4-HOLE PAD EXPANSION
72G	12	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/2BW,2FW
72G	12	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72H	12	SEF	WFC-11-4A	TERM CONN WELDED 4/0 AAC TO 4-HOLE PAD
72H	48	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72H	48	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72I	17	SEF	WFC-11-2B	TERM CONN WELDED 4/0 AAC TO 2-HOLE PAD
72I	34	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72I	34	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72J	3	SEF	WFTO-58-2B	TERM CONN WELDED 2" AL TO 2-HOLE PAD
72J	6	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/2BW,2FW
72J	6	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72K	15	SEF	WFC-24-4A	TERM CONN WELDED 636 AAC TO 4-HOLE PAD
72K	60	SEIB	SSB250	BOLTS: 1/2" X 2-1/2" SSB W/2BW,2FW
72K	60	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72L	9	SEF	WFC-24-2B	TERM CONN WELDED 636 AAC TO 2-HOLE PAD
72L	18	SEIB	SSB250	BOLTS: 1/2" X 2-1/2" SSB W/2BW,2FW
72L	18	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
72M	18	SEF	FNCT-20-4A	TERM CONN BOLTED 500 CU TO 4-HOLE PAD
72M	72	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/2BW,2FW
72M	72	SEIB		HARDWARE: 1/2" SILICON BRONZE HN
73	66	SEF	ASWH-58-3-SE	BUS SUPPORT WELDED 2" AL TO 3" B.C.
73A	3	SEF	WXCTO-58-3	BUS SUPPORT WELDED 2" AL TO 3" B.C. EXPANSION
73B	3			BUS SUPPORT, AL ANGLE TO 3" B.C.
73B	12	SEIB	GCS150	BOLTS: 1/2" X 1-1/2" GCS W/LW,FW

73C	3	SEF	ASCRI-53-7	BUS SUPPORT 954 AAC TO 7" B.C.
75	21	SEF	GFCS-5050	PARALLEL CONN 4/0
77	15	SEF	DP-58-AL	END CAP, 2" AL
78	18	SMI	STP-C	TRANSITION PLATE, 4-HOLE PAD
78A	3	SMI	STP-B2	TRANSITION PLATE, 2-HOLE PAD
79	75	SEF	ASPC-24-4	CABLE SPACE FOR (2) 636 AAC, 4" SPACING
80	40	SEF	GTC2-14-SND	GROUND CONN TWO PIECE DOUBLE GROOVE 1/0--4/0 CU TO FLAT, TINNED
80A	175	SEF	GTC-14-SND	GROUND CONN TWO PIECE SINGLE GROOVE 1/0--4/0 CU TO FLAT, TINNED
80B	16	SEF	FNCT-20-2B-SND	GROUND TERMINAL 4/0 CU TO 2-HOLE PAD, TINNED
80B	32	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/HN,LW,2FW
105		BY	OTHER	LIGHTS, CONDUIT, CONTROL CABLE, JUNCTION BOXES, ETC