

Project: NTPAC  
Base Project

DAPPER Fault Contribution Complete Report

Comprehensive Short Circuit Study Settings

Three Phase Fault:	Yes	Faulted Bus:	All Buses
Single Line to Ground:	Yes	Bus Voltages:	First Bus From Fault
Line to Line Fault:	No	Branch Currents:	First Branch From Fault
Line to Line to Ground:	No	Phase or Sequence:	Report phase quantities
Motor Contribution:	Yes	Fault Current Calculation:	Asymmetrical RMS (with DC offset and Decay)
Transformer Tap:	Yes	Asym Fault Current at Time:	0.50 Cycles
Transformer Phase Shift:	Yes		

Bus Name	Contributions	Initial Symmetrical Amps			Asymmetrical Amps			Init Sym Neutral Amps		
		3 Phase	SLG	LLG	3 Phase	SLG	LLG	LL	SLG	LLG
IHP1	MDP-1TX1 CABLE	44,755	0	0	58,921	0	0	0	0	0
	MDP-1HP1 CABLE	0	0	0	0	0	0	0	0	0
ILP1	FIX1-ILP2 CABLE	6,596	6,636	0	6,699	6,699	0	0	0	0
	TX1-ILP1 CABLE	0	0	0	0	0	0	0	0	0
ILP1S	FIX1-ILP2 CABLE	4,536	3,777	0	4,564	3,778	0	0	0	0
	FIX1-ILP2 CABLE	4,536	3,777	0	4,564	3,778	0	0	0	3,777
IMP1	TX2-IMP1 CABLE	6,615	6,649	0	6,678	6,702	0	0	0	0
	TX2-IMP1 CABLE	0	0	0	0	0	0	0	0	6,649
BUS-0019	CBL-0014 CABLE	48,134	0	0	66,555	0	0	0	0	0
	CBL-0014 CABLE	0	0	0	0	0	0	0	0	0
MSR	UTL-1TX3 UTILITY	48,134	0	0	66,555	0	0	0	0	0
	UTL-1TX3 UTILITY	48,134	0	0	66,555	0	0	0	0	0

Bus Name	Contributions	Initial Symmetrical Amps			Asymmetrical Amps			Init Sym Neutral Amps		
		3 Phase	SLG	LLG	3 Phase	SLG	LLG	LL	SLG	LLG
W.R.E. BUS	MDP-2LMA CABLE	0	0	0	0	0	0	0	0	0
	MDP-2LPA CABLE	0	0	0	0	0	0	0	0	0
W.R.E. BUS	MDP-3POD CABLE	0	0	0	0	0	0	0	0	0
	MDP-3HP1 CABLE	0	0	0	0	0	0	0	0	0
W.R.E. BUS	MDP-1TX2 CABLE	0	0	0	0	0	0	0	0	0
	SVC FEED CABLE	48,134	0	0	66,555	0	0	0	0	0
W.R.E. BUS	SVC FEED CABLE	0	0	0	0	0	0	0	0	0
	CBL-0014 CABLE	0	0	0	0	0	0	0	0	0

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Load Flow Summary Report

Load Flow Study Settings

Include Source Impedance:	Yes	Bus Voltage Drop %:	3.0
Solution Method:	Exact (Iterative)	Branch Voltage Drop %:	
Load Specification:	Connected Load		

Swing Generators

Source	In/Out Service	Vpct	kW	VD%	Utility Impedance
UTL-1TX3	In	1.00	0.00	4.4	336.0 0.99 0.31 0.248

Bus Name	In/Out Service	Design Volts	LF Volts	Angle Degree	PU Volts	%VD
HP1	In	480	473	-0.58	0.99	1.10
ILP1	In	208	201	-0.85	0.97	3.37
ILP1S	In	208	199	-0.53	0.96	4.27
IMP1	In	208	197	-1.23	0.95	5.39
BUS-0019	In	480	475	-0.58	0.99	0.98
MSR	In	480	475	-0.58	0.98	1.07

Bus Name	In/Out Service	Design Volts	LF Volts	Angle Degree	PU Volts	%VD
W.R.E. BUS	In	480	475	-0.58	0.99	0.99

Cables

From Bus To Bus	Component Name	In/Out Service	%VD	kW Loss	kvar Loss	kVA Loss	LF Amps	PF
IHP1	IHP1-1TX1	In	0.00	46.8	25.5	58.8	74.5	0.80
BUS-0019				0.0	0.0	0.0	17.4	
ILP1	FIX1-ILP2	In	0.90	34.5	28.0	43.4	124.7	0.80
ILP1S				0.4	0.2	0.4	48.0	
BUS-0011	FIX1-ILP1	In	0.07	46.0	34.4	57.4	164.9	0.80
ILP1				0.0	0.0	0.0	35.8	
BUS-0013	FIX2-IMP1	In	0.12	85.3	61.9	106.5	112.2	0.80
IMP1				6.1	8.1	8.1	67.9	
BUS-0019	CBL-0014	In	0.80	446.7	536.9	539.5	679.7	0.80
W.R.E. BUS				0.0	0.0	0.0	3.1	

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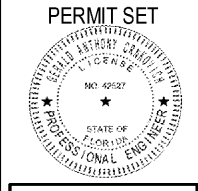
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FGA PROJECT NUMBER  
19048

ISSUE DATE  
04-15-2020

NO.	DATE	NOTES

SHEET NAME

ELECTRICAL  
CALCULATIONS

SHEET NUMBER  
E6.3