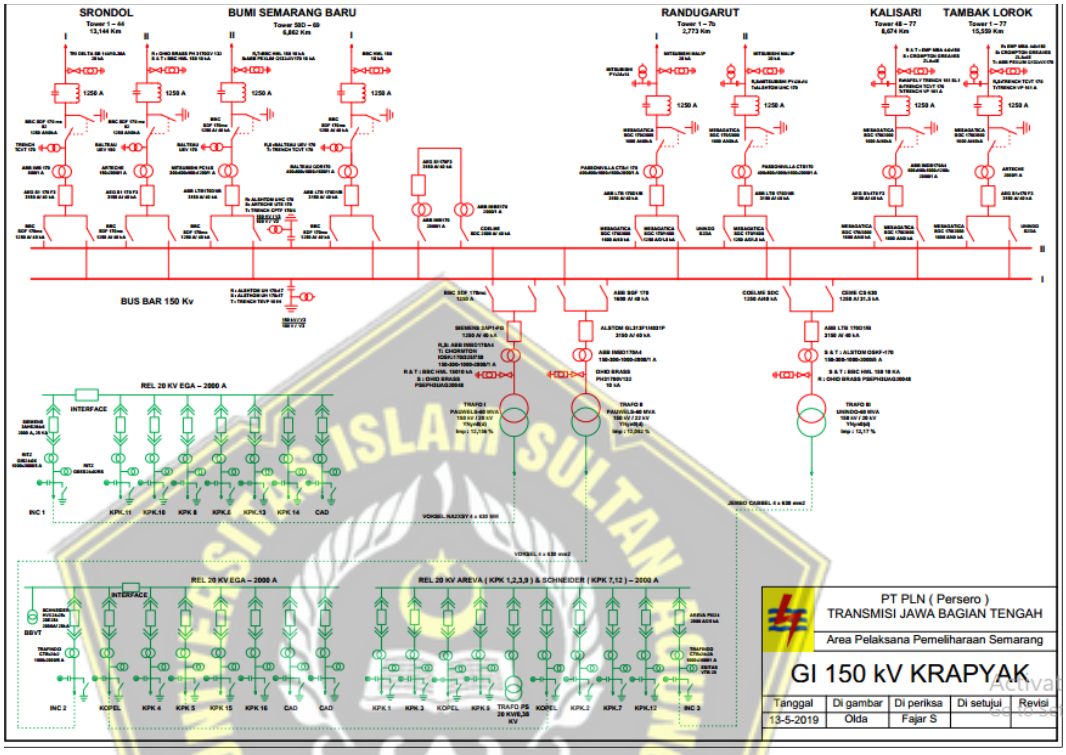
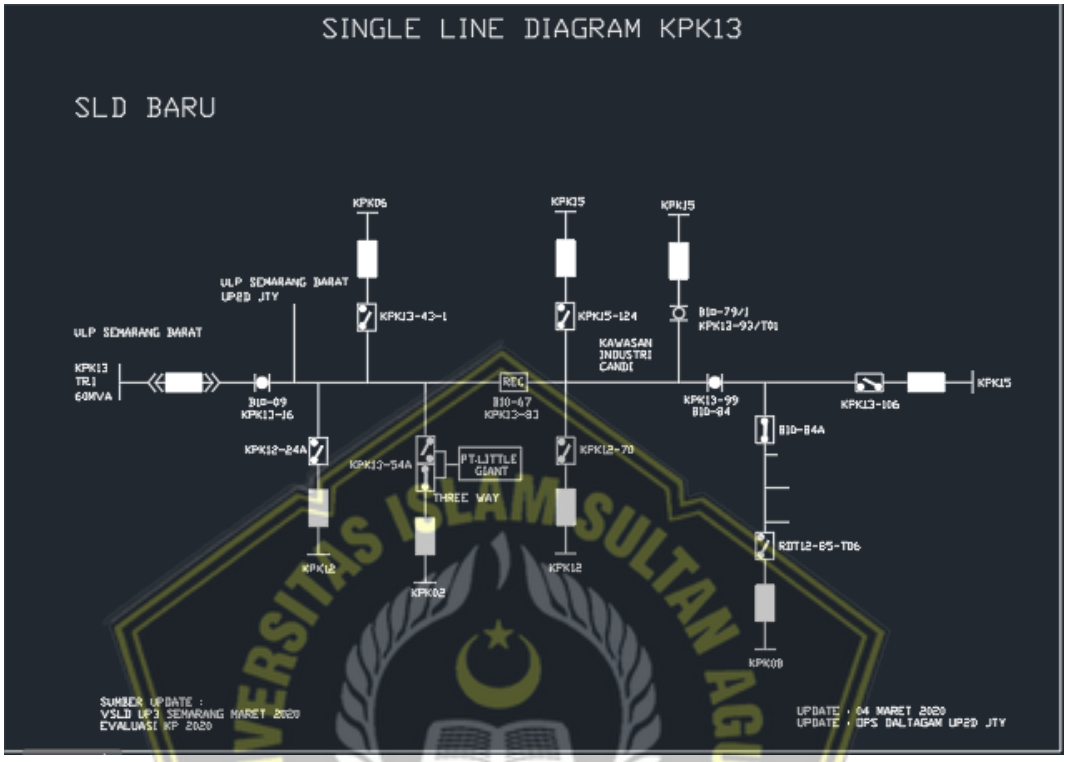
LAMPIRAN

1. Single line diagram Gardu Indu Krapyak Semarang

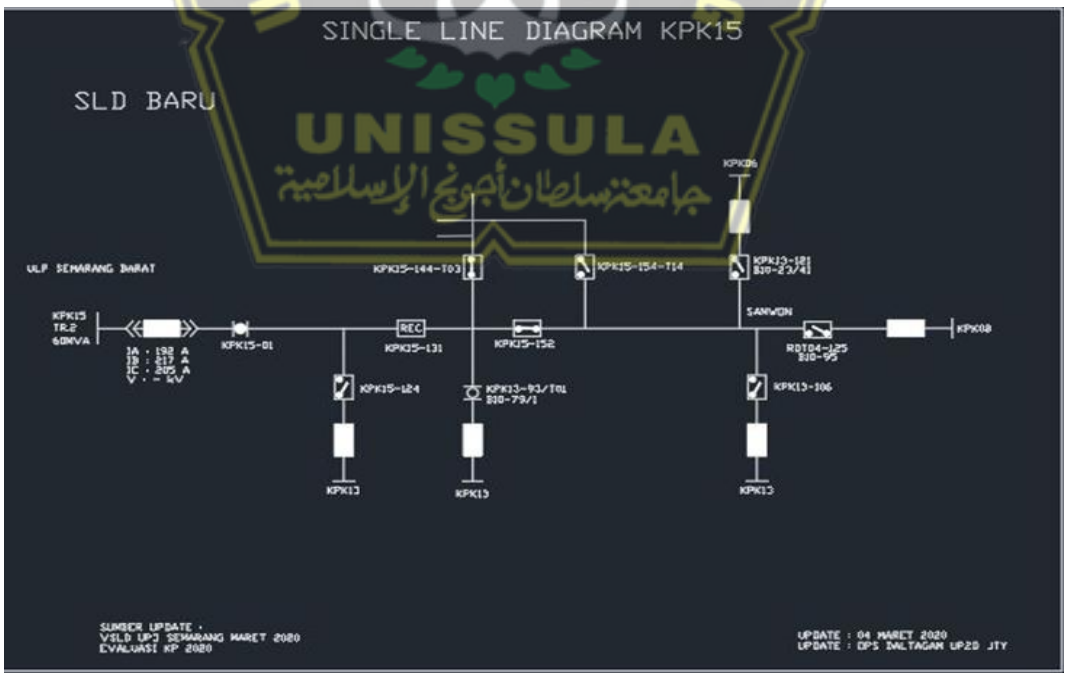


2. Data SLD *Feeder* Gardu Induk Krapyak

Feeder Krapyak 13



Feeder Krapyak 15



3. Name Plate Trafo 1 60 MVA Gardu Induk Krapyak Semarang

4. Data Beban *Feeder* Bulan Agustus 2020

Gardu Induk	Data Trafo					Data Penyulang			Beban Penyulang				Bulanan	
	Unit	Daya (MVA)	Teg. Sec. (kV)	Set. OLTC (kV)	In (A)	Feeder	I > (A)	Panjang Jar. (kms)	JAM 10:00		JAM 19:00		Tertinggi	Tertinggi
									Tertinggi tercapai	Tertinggi Normal	Tertinggi tercapai	Tertinggi Normal	tercapai	Normal
Krapyak	I	60	20		1.732	KPK06	480		303	201	318	275	318	275
						KPK10	480	.	153	105	160	103	160	105
						KPK11	480	.	60	52	57	51	60	52
						KPK13	480	.	173	118	128	81	173	118
						KPK14	480	.	143	114	146	134	146	134
						KPK08	480	.	322	250	208	171	322	250
	II	60	20		1.732	KPK04	480	.	386	129	381	156	386	156
						KPK05	480	.	74	66	92	86	92	86
						KPK15	480	.	240	160	162	106	240	160
						KPK16	480	.	144	103	142	130	144	130
	III	60	20		1.732	KPK01	480	.	28	27	28	28	28	28
						KPK02	480	.	130	64	153	55	153	64
						KPK03	480	.	194	158	208	173	208	173
						KPK07	480	.	63	22	21	10	63	22
						KPK09	480	.	0	0	0	0	0	0
						KPK12	480	.	130	88	71	55	130	88

5. Data Impedansi Penghantar

IMPEDANSI KAWAT PENGHANTAR MENURUT SPLN 64: 1995

Tahanan (R) dan reaktansi (X_L) pengantar AAAC tegangan 20 kV

(SPLN 64: 1995)

Luas Penampang mm^2	*Jari²mm*	*Urat*	*GMR (mm)*	*Impedansi urutan positif (Ohm / km)*	*Impedansi urutan Nol (Ohm / km)*
16	2,2563	7	1,6380	2,0161 + j 0,4036	2,1641 + j 1,6911
25	2,8203	7	2,0475	1,2903 + j 0,3895	1,4384 + j 1,6770
35	3,3371	7	2,4227	0,9217 + j 0,3790	1,0697 + j 1,6665
50	3,9886	7	2,8957	0,6452 + j 0,3678	0,7932 + j 1,6553
70	4,7193	7	3,4262	0,4608 + j 03572	0,6088 + j 1,6447
95	5,4979	19	4,1674	0,3096 + j 0,3449	0,4876 + j 1,6324
120	6,1791	19	4,6837	0,2688 + j 0,3376	0,4168 + j 1,6324
150	6,9084	19	5,2365	0,2162 + j 0,3305	0,3631 + j 1,6180
185	7,6722	19	5,8155	0,1744 + j 0,3239	0,3224 + j 1,6114
240	8,7386	19	6,6238	0,1344 + j 0,3158	0,2824 + j 1,6034

PERHITUNGAN JATUH TEGANGAN PADA PENYULANG 13 AKIBAT PELIMPAHAN BEBAN KE PENYULANG KPK 15 PADA GARDU INDUK 150 KV/20 KV KRAPYAK SEMARANG

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