

VYPOČTENÉ HODNOTY

**USTÁLENÝ CHOD SÍTĚ PŘI ZAPOJENÍ BEZ
MŮSTKU**

01 UCH - zapojení bez můstku

Load Flow Calculation Tue 03.05.11 10:58:57 Start: manual Name:05020906
 Copynr:35

PROGRAM CHARACTERISTICS

```

387 nodes                222 lines/cables
274 loads                13 busbar couplers
14 generators            205 transformers
38 injections/equiv.injections 0 equivalent branches
                           6 shunts

4 electrical sub-networks

3 iterations

5 balance diagnosis
0 limit violations
  
```

Generations, Loads and Losses

Network Membership		no.	own	no.	subjac.	no.	boundry	no.	foreign
no. undef.v									
Line&Coupl.	Sum Ploss [MW]	213	-11.0	0	0.0	0	0.0	22	-4.1
0	0.0								
	Qloss [MVar]		114.2		0.0		0.0		257.2
	0.0								
Transform.	Sum Ploss [MW]	150	-6.8	0	0.0	0	0.0	55	-4.5
0	0.0								
	Qloss [MVar]		-89.9		0.0		0.0		-108.2
	0.0								
Shunts	Sum Ploss [MW]	4	-0.1	0	0.0	0	0.0	2	0.0
0	0.0								
	Qloss [MVar]		16.8		0.0		0.0		11.2
	0.0								
EquivBrch.	Sum Ploss [MW]	0	0.0	0	0.0	0	0.0	0	0.0
0	0.0								
	Qloss [MVar]		0.0		0.0		0.0		0.0
	0.0								
Network Membership		no.	own	no.	subjac.	no.	boundry	no.	foreign
no. undef.v									
Loads	Sum P(+) [MW]	203	-1371.9	0	0.0	0	0.0	47	-201.3
0	0.0								
	Sum Q(+) [MVar]		-172.3		0.0		0.0		25.7

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0.0											
-----		-----									
Generat.	Sum P(+)	[MW]	0	0.0	0	0.0	0	0.0	11	152.6	
0	0.0										
	Sum Q(+)	[MVar]		0.0		0.0		0.0		35.5	
	0.0										
-----		-----									
Injections	Sum P(+)	[MW]	2	32.0	0	0.0	0	0.0	21	5607.5	
0	0.0										
	Sum Q(+)	[MVar]		4.6		0.0		0.0		-134.6	
	0.0										
=====		=====									
Loads	Sum P(-)	[MW]	21	51.5	0	0.0	0	0.0	3	2.9	
0	0.0										
	Sum Q(-)	[MVar]		-44.6		0.0		0.0		-45.3	
	0.0										
-----		-----									
Generat.	Sum P(-)	[MW]	0	0.0	0	0.0	0	0.0	3	-1.2	
0	0.0										
	Sum Q(-)	[MVar]		0.0		0.0		0.0		1.0	
	0.0										
-----		-----									
Injections	Sum P(-)	[MW]	1	-0.4	0	0.0	0	0.0	14	-4245.3	
0	0.0										
	Sum Q(-)	[MVar]		0.4		0.0		0.0		128.1	
	0.0										
=====		=====									
Zero_Inj.	Sum P	[MW]	153	0.0	0	0.0	0	0.0	21	-0.0	
0	0.0										
	Sum Q	[MVar]		0.1		0.0		0.0		0.1	
	0.0										
=====		=====									
=====		=====									

```

*****
* Total Losses P [MW ] -17.809 *
* (no shunts) Q [MVar] 24.225 *
* Total Load P [MW ] -1320.486 *
* Q [MVar] -216.901 *
* Total Gener. P [MW ] 0.000 *
* Q [MVar] 0.000 *
*****

```


---Network Group---		Nu.of	No.	P-Gen	Q-Gen	No.	P-Load	Q-Load	No.		
P-Loss	Q-Loss										
Num Name	Type	NA	nod	Gen.	[MW]	[MVar]	Loads	[MW]	[MVar]	4pol.	
[MW]	[MVar]										

23	MTVVN023	dyn.	82	0	0.0	0.0	134	-846.5	-140.0	89	
-4.3	-64.1										
16	LnJMEfor	dyn.	48	2	42.3	1.8	8	-14.8	-4.4	61	
-2.4	23.8										
39	SCADA23	fix	27	0	0.0	0.0	6	9.1	28.3	30	
-4.1	31.4										
6	InJCEfor	fix	23	0	0.0	0.0	10	-35.5	-12.5	28	
-0.4	20.4										
8	InJMEfor	fix	20	0	0.0	0.0	8	-29.5	-5.9	28	
-2.3	65.5										
4	GeJMEfor	fix	19	0	0.0	0.0	7	-41.2	-6.6	22	

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-0.7	16.9								
18 SCADA02 dyn.		17	0	0.0	0.0	6	-19.0	0.5	25
-0.3	21.3								
1 GeJCEown dyn.		15	0	0.0	0.0	6	-22.8	-2.8	20
-1.1	9.5								
3 GeJMEown dyn.		13	10	91.3	28.3	5	-63.2	-12.1	16
-0.7	-7.8								
5 InJCEown dyn.		11	0	0.0	0.0	4	-12.2	-0.9	13
-1.4	-3.3								
7 InJMEown dyn.		10	0	0.0	0.0	4	-7.3	11.5	13
-3.2	25.6								
10 TrJCEfor dyn.		8	1	7.4	0.6	2	-8.4	-0.6	9
-0.1	3.2								
30 MTVVN030 fix		8	1	10.4	5.8	2	-9.4	-3.9	8
-0.2	0.1								
9 TrJCEown dyn.		8	0	0.0	0.0	1	-0.2	1.1	11
-0.8	6.9								
31 MTVVN031 fix		6	0	0.0	0.0	0	0.0	0.0	5
-0.2	3.2								
63 RPELT101 fix		5	0	0.0	0.0	0	0.0	0.0	4
-1.8	43.9								
40 SCADA24 dyn.		2	0	0.0	0.0	2	-7.8	-1.7	2
-0.1	-0.5								
49 RPIST102 fix		2	0	0.0	0.0	0	0.0	0.0	3
-0.1	0.2								
59 RHUMT101 fix		2	0	0.0	0.0	3	-21.0	-0.7	2
-0.1	-0.9								
20 MTVVN020 fix		1	0	0.0	0.0	1	-2.3	-1.2	1
-0.0	-0.2								
21 MTVVN021 fix		1	0	0.0	0.0	2	-7.7	-3.3	1
-0.0	-0.2								
22 MTVVN022 fix		1	0	0.0	0.0	2	-2.4	0.0	1
-0.0	-0.2								
12 TrJMEfor fix		1	0	0.0	0.0	1	0.1	-0.9	1
-0.0	-0.0								
24 MTVVN024 fix		1	0	0.0	0.0	2	-9.3	-2.0	1
-0.0	-0.5								
25 MTVVN025 fix		1	0	0.0	0.0	2	-5.3	-0.7	1
-0.0	-0.2								
26 MTVVN026 fix		1	0	0.0	0.0	1	-8.4	-1.8	1
-0.1	-0.5								
27 MTVVN027 fix		1	0	0.0	0.0	1	-8.0	-2.1	1
-0.1	-0.4								
28 MTVVN028 fix		1	0	0.0	0.0	1	-3.5	-1.0	1
-0.1	-0.4								
29 MTVVN029 fix		1	0	0.0	0.0	1	-4.0	-2.7	1
-0.0	-0.2								
13 LnJCEown dyn.		1	0	0.0	0.0	1	0.5	-0.5	1
-0.0	-0.2								
15 LnJMEown dyn.		1	0	0.0	0.0	1	-4.2	-2.0	1
-0.0	-0.1								
32 MTVVN032 fix		1	0	0.0	0.0	2	-10.9	1.6	1
-0.1	-0.7								
33 MTVVN033 fix		1	0	0.0	0.0	2	-2.5	-0.2	1
-0.0	-0.0								
34 MTVVN034 dyn.		1	0	0.0	0.0	2	-7.8	-0.3	1
-0.0	-0.3								
35 MTVVN035 dyn.		1	0	0.0	0.0	2	-5.4	-1.3	1
-0.0	-0.2								
36 MTVVN036 dyn.		1	0	0.0	0.0	2	-8.9	-3.4	1
-0.0	-0.4								
37 MTVVN037 fix		1	0	0.0	0.0	2	-6.4	-0.2	1
-0.0	-0.4								
38 SCADA22 fix		1	0	0.0	0.0	2	-1.4	-0.3	1
-0.0	-0.3								
14 LnJCEfor dyn.		1	0	0.0	0.0	1	-8.8	-2.1	1
-0.0	-0.4								
17 SCADA01 dyn.		1	0	0.0	0.0	1	-7.4	-2.9	1
-0.0	-0.3								

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41 SCADA25 dyn.	1	0	0.0	0.0	1	-1.5	-2.4	1
-0.0 -0.1								
42 RPRAT101 fix	1	0	0.0	0.0	1	-11.3	-2.0	1
-0.1 -0.5								
43 RPRAT102 fix	1	0	0.0	0.0	1	-5.2	-1.9	1
-0.1 -0.5								
44 RSTRT101 fix	1	0	0.0	0.0	1	-0.2	-2.0	1
-0.1 -0.4								
45 RSTRT102 fix	1	0	0.0	0.0	1	-2.0	-1.3	1
-0.1 -0.1								
46 RMRCT101 fix	1	0	0.0	0.0	1	-2.6	-1.9	1
-0.0 -0.0								
47 RMRCT102 fix	1	0	0.0	0.0	2	-24.4	-2.9	1
-0.1 -1.8								
48 RPIST101 fix	1	0	0.0	0.0	2	4.6	-5.1	1
-0.0 -0.2								
11 TrJMEown dyn.	1	0	0.0	0.0	1	-3.3	-0.5	1
-0.0 -0.2								
50 RDAST401 dyn.	1	0	0.0	0.0	1	-3.1	-3.4	1
-0.0 -0.2								
51 RDAST402 fix	1	0	0.0	0.0	1	-11.5	-1.9	1
-0.1 -0.6								
52 RKOCT401 fix	1	0	0.0	0.0	1	-5.4	-0.9	1
-0.0 -0.3								
53 RKOCT402 fix	1	0	0.0	0.0	1	-6.0	-1.1	1
-0.0 -0.3								
54 RTABT201 fix	1	0	0.0	0.0	1	-10.8	-1.6	1
-0.0 -0.7								
55 RELI_TG1 fix	1	0	0.0	0.0	1	-2.7	0.2	1
-0.0 -0.2								
56 RELI_TG2 fix	1	0	0.0	0.0	1	-8.0	-1.8	1
-0.0 -0.3								
57 RMRC1964 fix	1	0	0.0	0.0	1	-7.5	-1.8	1
-0.0 -0.3								
58 RMRC1965 fix	1	0	0.0	0.0	2	-7.6	-1.7	1
-0.0 -0.3								
19 SCADA03 dyn.	1	0	0.0	0.0	1	-2.0	0.3	1
-0.0 -0.2								
61 RHUM1389 fix	1	0	0.0	0.0	3	-102.7	-12.7	1
-0.4 -5.3								
2 GeJCEfor dyn.	1	0	0.0	0.0	1	-2.4	-0.1	1
-0.0 -0.0								
64 RPELT102 fix	1	0	0.0	0.0	1	-1.6	-0.7	1
-0.0 -0.1								
65 RPACT101 fix	1	0	0.0	0.0	1	-8.4	-1.8	1
-0.0 -0.3								
66 RPACT102 fix	1	0	0.0	0.0	1	-11.3	-2.1	1
-0.1 -0.8								
67 RPOCT101 fix	1	0	0.0	0.0	1	-8.9	-1.7	1
-0.1 -0.6								
68 RTABT101 fix	1	0	0.0	0.0	1	-18.3	-4.6	1
-0.0 -1.0								
69 RTABT102 fix	1	0	0.0	0.0	1	-5.1	-0.3	1
-0.0 -0.1								
70 RBEXT101 fix	1	0	0.0	0.0	1	-4.0	-0.4	1
-0.0 -0.1								
71 RBEXT102 fix	1	0	0.0	0.0	1	-1.5	-0.3	1
-0.0 -0.0								

Modification Factors and Limits

Voltage Level [kV]	400.0	220.0	110.0	24.0	22.0
15.0					
Factors I	100.00 nmod	100.00 nmod	100.00 nmod	100.00 nmod	100.00 nmod

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100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod
100.00 nmod

vlow 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod
100.00 nmod

Voltage Level [kV] 10.0 6.3

Factors I 100.00 nmod 100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod

vlow 100.00 nmod 100.00 nmod

Voltage Level [kV] all

Factors Qupp 100.00 nmod

Qlow 100.00 nmod

FLAGS

column1/2

* = diagnosis indication (discrepancies/limit violations)

E = eliminated node

Calculated Value

O measurand (balance) U prov. splitted balance

X undefined i invalid

S pseudo measurement V limit violation

Taps

p Phase shifter transformer

u Tap changer is at low voltage side

A Tap position adjusted

P tap position postprocessed

E Tap position estimated

D Tap position estimated with discrepancy

B Tap position estimated and identified as bad data

X tap position unobservable

Indicators for Network Membership

O own

S subjacent own

B boundary

F foreign

R result NR

r to reduce

=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							
=====								
OhlCb	O	MWVEDENI	110kV	5507_BAR	-0.5	0.8	4.5	450
		-0.000						
		MBHN	110kV	SBA1				450
APD		0.111						
OhlCb	O	MWVEDENI	110kV	5508_BAR	12.3	3.8	63.1	450
		-0.003						
		MOK_D	110kV	SBA1				450

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APD			0.041					
PQnod	O	MBAR	110kv	SBA1	-11.8	-4.5	118.0	-7.80
elSn		NetGr						110.0
1								
Load	F	MBAR	110kv	T101LOAD	-11.8	-4.5	62.0	210
Load	F	MBAR	110kv	T102LOAD	0.0	0.0	0.0	210
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kv	5506_BHN	23.5	5.2	117.8	450
		-0.016						
		MOKC	110kv	SBB1				450
APD		0.059						
OhlCb	O	MWVEDENI	110kv	5507_BAR	0.5	-0.6	4.0	450
		-0.000						
		MBAR	110kv	SBA1				450
APD		0.111						
Trafo	O	MBHN	110kv	T101_cmp	-10.5	-1.9	52.1	210
13		-0.050						
		MBHN	22kv	SBA				210
APD		-0.650						
Trafo	O	MBHN	110kv	T102_cmp	-13.5	-2.7	67.5	210
14		-0.034						
		MBHN	22kv	SBB				131
APD		-0.595						
-----								
PQnod	O	MBHN	110kv	SBA1	-0.0	-0.0	118.0	-7.81
elSn		NetGr						110.0
1								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	O	MBHN	110kv	T101_cmp	10.4	1.2	267.0	1050
13		-0.050						
		MBHN	110kv	SBA1				1050
APD		-0.650						

PQnod	O	MBHN	22kv	SBA	-10.4	-1.2	22.71	-9.61
elSn		NetGr						22.00
1								

Load	O	MBHN	22kv	SBALOAD	-10.4	-1.2	267.0	1706
~~~~~								

## 01 UCH - zapojení bez můstku

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 14	0	MBHN -0.034	110kV	T102_cmp	13.5	2.1	354.7	1050
APD		MBHN -0.595	110kV	SBA1				656
PQnod elSn	0	MBHN NetGr	22kV	SBB	-13.5	-2.1	22.24	-10.24
1								22.00
Load	0	MBHN	22kV	SBBLOAD	-13.5	-2.1	354.7	1706
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.005	110kV	_559_CHR	4.1	-0.1	20.0	450
APD		MOKC 1.003	110kV	SBB1				450
PQnod elSn	F	MCHR NetGr	110kV	SBA1	-4.1	0.1	118.0	-7.90
1								110.0
Load	F	MCHR	110kV	T102LOAD	-4.1	0.1	20.0	84
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.000	110kV	5518_FA_	1.7	-0.3	8.4	450
APD		MOKC 0.284	110kV	SBB1				450
OhlCb	0	MWVEDENI -0.000	110kV	5519_FA_	1.7	-0.3	8.4	450
APD		MOKC 0.284	110kV	SBB1				450
PQnod	0	MFA	110kV	SBA1	-3.4	0.6	118.1	-7.74

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eISn	NetGr								110.0
1									
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Load	F	MFA	110kV	T102LOAD	-3.4	0.6	16.8	131	
~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
St1 Flg		Ploss		Busbar)				Ilim/Vn	
(nodes:									
St2 Flg		Qloss							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Trafo	0	MHO	110kV	T8_cmp	-34.3	-7.2	1758.6	3637	
		-0.098	110kV	SBA1				3637	
APD		MHO							
		-2.068							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PVnod	0	MHO	10kV	SBA3	34.3	7.2	11.51	2.75	
eISn		NetGr						10.00	
1									
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gen	F	MHO	10kV	GEN3cmp	34.3	7.2	1758.6	3437	
~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
St1 Flg		Ploss		Busbar)				Ilim/Vn	
(nodes:									
St2 Flg		Qloss							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Trafo	0	MHO	110kV	T10_cmp	-26.6	-6.6	1374.0	3637	
		-0.083	110kV	SBA1				3637	
APD		MHO							
		-1.405							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PVnod	0	MHO	10kV	SBA4	26.6	6.6	11.51	2.13	
eISn		NetGr						10.00	
1									
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gen	F	MHO	10kV	GEN.4cmp	26.6	6.6	1374.0	3437	
~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
St1 Flg		Ploss		Busbar)				Ilim/Vn	
(nodes:									
St2 Flg		Qloss							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
oh1Cb	0	MWVEDENI	110kV	_533_HO_	-29.9	-5.6	147.2	450	
		-0.151	110kV	SB.A				450	
APD		MTD							
		0.217							

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ohlCb	O	MWVEDENI	110kV	_534_HO_	-6.4	0.7	31.2	450
		-0.007						
		MWVEDSBV	110kV	_534_A				450
APD		0.655						
ohlCb	O	MWVEDENI	110kV	_535_HO_	-6.6	1.2	32.5	450
		-0.033						
		MSO	110kV	SBA1				450
APD		2.390						
ohlCb	O	MWVEDENI	110kV	_536_HO_	-6.8	0.9	33.1	450
		-0.031						
		MSO	110kV	SBA1				450
APD		2.402						
Trafo	O	MHO	110kV	T10_cmp	26.5	5.2	130.5	331
		-0.083						
		MHO	10kV	SBA4				331
APD		-1.405						
Trafo	O	MHO	110kV	T13_cmp	-5.9	-1.7	29.7	210
12		-0.046						
		MHO	22kV	SBA				210
APD		-0.251						
Trafo	O	MHO	110kV	T8_cmp	34.2	5.1	167.3	331
		-0.098						
		MHO	10kV	SBA3				331
APD		-2.068						

PQnod	O	MHO	110kV	SBA1	-5.0	-5.9	119.4	0.01
elSn		NetGr						
1								110.0

Load	O	MHO	110kV	T12LOAD	-5.0	-5.9	37.6	84
------	---	-----	-------	---------	------	------	------	----

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlCb	O	MWVEDENI	110kV	_541_HO_	1.0	-2.8	14.7	450
		-0.003						
		MKY	110kV	SBA1				450
APD		0.893						
ohlCb	O	MWVEDENI	110kV	_542_HO_	1.9	5.5	28.9	450
		-0.003						
		MPNV	110kV	SBA1				450
APD		0.348						
ohlCb	O	MWVEDENI	110kV	_544_HO_	-2.9	-2.7	19.6	450
		-0.005						
		MVLM	110kV	SBA7				450
APD		0.910						

PQnod	O	MHO	110kV	SBB1	-0.0	-0.0	116.3	-6.80
elSn		NetGr						
1								110.0

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss						

01 UCH - zapojení bez můstku									
(nodes: St2 Flg Qloss	Busbar)							Ilim/Vn	
Trafo 12	0	MHO -0.046	110kV	T13_cmp	5.9	1.4	148.6	1050	
APD		MHO -0.251	110kV	SBA1				1050	
PQnod elSn	0	MHO NetGr	22kV	SBA	-5.9	-1.4	23.45	-0.87	
1								22.00	
Load	0	MHO	22kV	SBALOAD	-5.9	-1.4	148.6	3149	
~~~~~									
Type St1 Flg	Nm	Station Ploss	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
(nodes: St2 Flg Qloss	Busbar)							Ilim/Vn	
OhlCb	0	MWVEDENI -0.212	110kV	_550_HUN	31.9	6.6	160.7	450	
APD		MOKC 0.127	110kV	SBB1				450	
Trafo 12	0	MHUN -0.113	110kV	T102_cmp	-31.9	-6.6	160.7	210	
APD		MHUN -3.168	22kV	SBA				210	
PQnod elSn	0	MHUN NetGr	110kV	SBA1	-0.0	0.0	117.0	-8.47	
1								110.0	
~~~~~									
Type St1 Flg	Nm	Station Ploss	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
(nodes: St2 Flg Qloss	Busbar)							Ilim/Vn	
Trafo 12	0	MHUN -0.113	110kV	T102_cmp	31.8	3.4	813.7	1050	
APD		MHUN -3.168	110kV	SBA1				1050	
PQnod elSn	0	MHUN NetGr	22kV	SBA	-31.8	-3.4	22.69	-13.80	
1								22.00	
Load	0	MHUN	22kV	SBALOAD	-14.5	-1.0	369.8	2099	
Load	0	MHUN	22kV	SBBLOAD	-17.3	-2.4	444.4	2099	
~~~~~									

# 01 UCH - zapojení bez můstku

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MWVEDENI -0.028	110kV	5594_KNC	9.2	2.3	48.1	450
APD		MPRT 0.930	110kV	SBA				450
Trafo 12	0	MKNC -0.029	110kV	T102_cmp	-9.2	-2.3	48.1	131
APD		MKNC -0.459	22kV	SBA1				131
PQnod elSn	0	MKNC NetGr	110kV	SBA1	-0.0	-0.0	114.1	-11.68
1								110.0
~~~~~								
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 12	0	MKNC -0.029	110kV	T102_cmp	9.2	1.9	243.6	656
APD		MKNC -0.459	110kV	SBA1				656
PQnod elSn	0	MKNC NetGr	22kV	SBA1	-9.2	-1.9	22.23	-14.30
1								22.00
Load Load	0 0	MKNC MKNC	22kV 22kV	SBA1LOAD SBA2LOAD	-9.6 0.4	-0.9 -1.0	250.4 26.9	1312 1312
~~~~~								
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MWVEDENI -0.308	110kV	_546_KUN	32.7	-3.1	160.2	450
APD		MOKC 0.258	110kV	SBA1				450
oh1Cb	0	MWVEDENI -0.033	110kV	5540_KUN	-21.0	5.8	106.4	450
APD		MNA_D 0.185	110kV	SBA1				450
Trafo 13	F	MKUN -0.056	110kV	T101_cmp	-11.7	-2.7	58.4	210

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APD		MKUN -0.518	22kV	SBB1				131
-----								
PQnod	O	MKUN	110kV	SBA1	-0.0	0.0	118.2	-5.52
elSn		NetGr						110.0
1								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	F	MKUN	110kV	T101_cmp	11.6	2.2	300.4	1050
13		-0.056						
APD		MKUN	110kV	SBA1				656
		-0.518						

PQnod	O	MKUN	22kV	SBB1	-11.6	-2.2	22.69	-7.42
elSn		NetGr						22.00
1								

Load	O	MKUN	22kV	SBB1LOAD	-5.8	-1.1	150.2	1706
Load	O	MKUN	22kV	SBB2LOAD	-5.8	-1.1	150.2	1706
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kV	_541_HO_	-1.0	3.7	19.0	450
		-0.003						
		MHO	110kV	SBB1				450
APD		0.893						
OhlCb	O	MWVEDENI	110kV	_545_KY_	37.6	4.5	188.2	450
		-0.716						
APD		MOKC	110kV	SBA1				450
		-0.150						
Trafo	O	MKY	110kV	T101_cmp	-23.8	-5.7	121.5	210
13		-0.121						
APD		MKY	22kV	SBA1				210
		-1.922						
Trafo	O	MKY	110kV	T102_cmp	-12.8	-2.5	65.0	210
13		-0.033						
APD		MKY	22kV	SBB1				210
		-0.549						
-----								
PQnod	O	MKY	110kV	SBA1	-0.0	-0.0	116.1	-6.71
elSn		NetGr						110.0
1								
~~~~~								

01 UCH - zapojení bez můstku

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MKY -0.000	22kV	V352	0.5	-0.2	14.5	500
APD		MKY 0.002	22kV	SBA1				500
oh1Cb	0	MKY -0.000	22kV	V353	0.5	-0.2	14.5	500
APD		MKY 0.002	22kV	SBA1				500
Trafo	0	MKY -0.026	22kV	BAT01cmp	-1.0	0.4	29.1	241
APD		MKY -0.052	6kV	SBV.T01				241

PQnod	0	MKY	22kV	SBA	-0.0	-0.0	22.08	-10.76
e1Sn		NetGr						22.00
1								

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MKY -0.000	22kV	V352	-0.5	0.2	14.6	500
APD		MKY 0.002	22kV	SBA				500
oh1Cb	0	MKY -0.000	22kV	V353	-0.5	0.2	14.6	500
APD		MKY 0.002	22kV	SBA				500
Trafo	0	MKY -0.121	110kV	T101_cmp	23.6	3.8	625.7	1050
APD		MKY -1.922	110kV	SBA1				1050

PQnod	0	MKY	22kV	SBA1	-22.6	-4.2	22.08	-10.71
e1Sn		NetGr						22.00
1								

Load	0	MKY	22kV	SBA1LOAD	-11.3	-2.1	300.5	2099
Load	0	MKY	22kV	SBA2LOAD	-11.3	-2.1	300.5	2099

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
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01 UCH - zapojení bez můstku

ohlCb	0	MKY	22kV	V19	0.0	0.0	0.0	500
		0.000	22kV	SBB1				500
APD		0.051						

PQnod	0	MKY	22kV	SBB	0.0	0.0	22.30	-8.98
elSn		NetGr						22.00
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

ohlCb	0	MKY	22kV	V19	-0.0	0.1	1.3	500
		0.000	22kV	SBB				500
APD		0.051	110kV	T102_cmp	12.8	1.9	335.3	1050
Trafo	0	MKY	110kV	SBA1				1050
13		-0.033						
APD		-0.549						

PQnod	0	MKY	22kV	SBB1	-12.8	-2.0	22.30	-8.98
elSn		NetGr						22.00
1								

Load	0	MKY	22kV	SBB1LOAD	-6.4	-1.0	167.7	2099
Load	0	MKY	22kV	SBB2LOAD	-6.4	-1.0	167.7	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

Trafo	0	MKY	6kV	B1T01cmp	-0.0	-0.0	0.0	999
		-0.025	6kV	SBV.T01				999
APD		-0.049						

PQnod	0	MKY	6kV	B1T01cmp	0.0	0.0	6.35	-11.40
elSn		NetGr						6.30
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								

01 UCH - zapojení bez můstku

St2	Flg	Qloss						
Trafo	0	MKY -0.026	22kV	BAT01cmp	1.0	-0.5	100.9	843
APD		MKY -0.052	22kV	SBA				843
Trafo	0	MKY -0.025	6kV	B1T01cmp	-0.0	-0.0	5.0	999
APD		MKY -0.049	6kV	B1T01cmp				999
Trafo	0	MKY -0.026	6kV	B3T01cmp	-1.0	0.5	100.8	1842
APD		MKY -0.111	6kV	SBV.TG3				1842
PQnod	0	MKY	6kV	SBV.T01	0.0	0.0	6.35	-11.40
elsn		NetGr						6.30
1								
~~~~~								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MKY -0.026	6kV	B3T01cmp	1.0	-0.6	103.4	1842
APD		MKY -0.111	6kV	SBV.T01				1842
PVnod	0	MKY	6kV	SBV.TG3	-1.0	0.6	6.38	-11.91
elsn		NetGr						6.30
1								
Gen	F	MKY	6kV	GEN.3cmp	-1.0	0.6	103.4	999
~~~~~								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlcb	0	MWVEDENI 0.000	110kV	5572_MAD	3.0	2.8	20.0	450
APD		MSVI 0.039	110kV	SBV.T115				450
ohlcb	0	MWVEDENI 0.001	110kV	5573_MAD	1.9	1.7	12.7	450
APD		MSVI 0.043	110kV	SBV.T114				450
ohlcb	0	MWVEDENI -0.072	110kV	5574_MAD	-19.2	-4.5	96.5	450
APD		MSLU 0.400	110kV	SBA1				450
ohlcb	0	MWVEDENI	110kV	5501_MAD	15.8	1.3	77.8	450

01 UCH - zapojení bez můstku

			-0.024						
			MOKC	110kV	SBB1				450
APD			0.239						
OhlCb	0		MWVEDENI	110kV	5502_MAD	15.8	1.3	77.8	450
			-0.024						
			MOKC	110kV	SBB1				450
APD			0.239						
OhlCb	0		MWVEDENI	110kV	5503_MAD	16.3	1.8	80.5	450
			-0.023						
			MOKC	110kV	SBB1				450
APD			0.228						
OhlCb	0		MWVEDENI	110kV	_567_MAD	-5.2	-0.2	25.5	450
			-0.012						
			MVST	110kV	SBB				450
APD			1.178						
OhlCb	0		MWVEDENI	110kV	5509_MAD	13.6	1.7	67.1	450
			-0.014						
			MMLE	110kV	SBA1				450
APD			0.204						
Trafo	0		MMAD	110kV	T101_cmp	-20.4	-3.0	100.9	131
13			-0.081						
			MMAD	22kV	SBA				210
APD			-2.048						
Trafo	0		MMAD	110kV	T102_cmp	-21.7	-3.0	107.2	210
13			-0.099						
			MMAD	22kV	SBB3				210
APD			-1.752						

PQnod	0	MMAD	110kV	SBA	-0.0	0.0	117.9	-7.91
elSn		NetGr						110.0
1								

~~~~~  
~~~~~

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		(Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MMAD	110kV	T101_cmp	20.3	1.0	520.8	656
13		-0.081						
		MMAD	110kV	SBA				1050
APD		-2.048						
PQnod	0	MMAD	22kV	SBA	-20.3	-1.0	22.53	-13.60
elSn		NetGr						22.00
1								

Load	0	MMAD	22kV	SBALOAD	-20.3	-1.0	520.8	2756
------	---	------	------	---------	-------	------	-------	------

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		(Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MMAD	110kV	T102_cmp	21.6	1.2	552.2	1050

01 UCH - zapojení bez můstku								
13		-0.099	110kV	SBA				1050
APD		MMAD						
		-1.752						

PQnod	O	MMAD	22kV	SBB3	-21.6	-1.2	22.62	-11.67
	elSn	NetGr						
								22.00
1								

Load	O	MMAD	22kV	SBB1LOAD	-10.8	-0.6	276.1	2756
Load	O	MMAD	22kV	SBB2LOAD	-10.8	-0.6	276.1	2756
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss						
(nodes:				Busbar)				Ilim/Vn
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kV	5504_MLE	21.2	2.6	104.3	450
		-0.006						
		MOKC	110kV	SBB1				450
APD		0.043						
OhlCb	O	MWVEDENI	110kV	5509_MAD	-13.6	-1.5	67.0	450
		-0.014						
		MMAD	110kV	SBA				450
APD		0.204						

PQnod	O	MMLE	110kV	SBA1	-7.5	-1.1	118.1	-7.78
	elSn	NetGr						
								110.0
1								

Load	F	MMLE	110kV	T101LOAD	-7.5	-1.1	37.3	131
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss						
(nodes:				Busbar)				Ilim/Vn
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kV	_547_NAD	-20.2	-6.4	103.3	450
		-0.172						
		MPNV	110kV	SBA1				450
APD		0.911						
OhlCb	O	MWVEDENI	110kV	5540_KUN	21.0	-5.6	106.0	450
		-0.033						
		MKUN	110kV	SBA1				450
APD		0.185						

PQnod	O	MNA_D	110kV	SBA1	-0.8	12.0	118.2	-5.79
	elSn	NetGr						
								110.0
1								

Load	F	MNA_D	110kV	T102LOAD	-0.9	6.8	33.5	52

```

01 UCH - zapojení bez můstku
Load      F  MNA_D      110kV      T1LOAD      0.1      -6.8      33.2      52
~~~~~

```

```

=====
Type      Nm  Station VL      Circuit      Pcalc      Qcalc      I/Vcalc      In/Phi
St1 Flg  Ploss                               Busbar)      Ilim/Vn
(nodes:
St2 Flg  Qloss
=====

```

```

oh1Cb      O  MWVEDENI 110kV      5575_NZD      34.2      5.9      172.9      450
              -0.455
              MOKC      110kV      SBB1      450
              0.096
APD oh1Cb      O  MWVEDENI 110kV      5577_NZD      -32.8      -4.6      165.2      450
              -0.240
              MPRT      110kV      SBA      450
              0.093
APD
-----

```

```

PQnod      O  MNZ_D      110kV      SBA1      -1.3      -1.3      115.8      -9.99
elSn      NetGr
1
-----

```

```

Load      F  MNZ_D      110kV      T101LOAD      -1.2      -0.6      6.5      52
Load      F  MNZ_D      110kV      T111LOAD      -0.2      -0.7      3.7      52
~~~~~

```

```

=====
Type      Nm  Station VL      Circuit      Pcalc      Qcalc      I/Vcalc      In/Phi
St1 Flg  Ploss                               Busbar)      Ilim/Vn
(nodes:
St2 Flg  Qloss
=====

```

```

Trafo      F  MOKC      10kV      T401_cmp      8.9      -8.3      676.1      5774
              -0.002
              MOKC      110kV      SBV.T401      5774
              -0.413
APD
-----

```

```

PQnod      O  MOKC      10kV      SBT401      -8.9      8.3      10.40      -20.52
elSn      NetGr
1
-----

```

```

Load      O  MOKC      10kV      SBT401LO      -8.9      8.3      676.1      5774
~~~~~

```

```

=====
Type      Nm  Station VL      Circuit      Pcalc      Qcalc      I/Vcalc      In/Phi
St1 Flg  Ploss                               Busbar)      Ilim/Vn
(nodes:
St2 Flg  Qloss
=====

```

```

Trafo      F  MOKC      10kV      T402_cmp      -2.6      0.9      154.7      5774
              -0.000
              MOKC      110kV      SBV.T402      5774
              -0.022
APD

```

01 UCH - zapojení bez můstku

PQnod	O	MOKC	10kV	SBT402	2.6	-0.9	10.23	-11.15
elSn		NetGr						10.00
1								
Load	O	MOKC	10kV	SBT402LO	2.6	-0.9	154.7	5774
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								
Trafo	F	MOKC	10kV	T403_cmp	0.0	0.0	0.0	5774
		0.000						
APD		MOKC	110kV	SBV.T403				5774
		-0.000						
PQnod	F	MOKC	10kV	T403_cmp	0.0	0.0	10.30	-0.34
elSn		NetGr						10.00
1								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								
OhlCb	O	MWVEDENI	110kV	5570_OKC	-48.9	-9.8	242.1	450
		-0.638						
APD		MUBR	110kV	SBB				450
		-0.828						
OhlCb	O	MWVEDENI	110kV	5571_OKC	-48.9	-9.8	242.1	450
		-0.638						
APD		MUBR	110kV	SBB				450
		-0.828						
OhlCb	O	MWVEDENI	110kV	_545_KY_	-38.3	-4.7	187.1	450
		-0.716						
APD		MKY	110kV	SBA1				450
		-0.150						
OhlCb	O	MWVEDENI	110kV	_546_KUN	-33.0	3.3	160.8	450
		-0.308						
APD		MKUN	110kV	SBA1				450
		0.258						
Trafo	F	MOKC	110kV	T402_cmp	169.1	21.0	826.8	1837
		-0.052						
APD		MOKC	110kV	SBV.T402				1837
		23.014						
PQnod	O	MOKC	110kV	SBA1	-0.0	0.0	119.0	-3.83
elSn		NetGr						110.0
1								

01 UCH - zapojení bez můstku

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI -0.455	110kV	5575_NZD	-34.6	-5.9	171.6	450
		MNZ_D	110kV	SBA1				450
APD		0.096						
oh1Cb	0	MWVEDENI -0.401	110kV	5576_OKC	-44.5	-7.1	220.2	450
		MZDO	110kV	SBA1				450
APD		-0.447						
oh1Cb	0	MWVEDENI -0.024	110kV	5501_MAD	-15.9	-1.0	77.7	450
		MMAD	110kV	SBA				450
APD		0.239						
oh1Cb	0	MWVEDENI -0.024	110kV	5502_MAD	-15.9	-1.0	77.7	450
		MMAD	110kV	SBA				450
APD		0.239						
oh1Cb	0	MWVEDENI -0.023	110kV	5503_MAD	-16.4	-1.6	80.4	450
		MMAD	110kV	SBA				450
APD		0.228						
oh1Cb	0	MWVEDENI -0.006	110kV	5504_MLE	-21.2	-2.5	104.2	450
		MMLE	110kV	SBA1				450
APD		0.043						
oh1Cb	0	MWVEDENI -0.006	110kV	5505_OKC	-13.6	-3.4	68.5	450
		MOK_D	110kV	SBA1				450
APD		0.104						
oh1Cb	0	MWVEDENI -0.212	110kV	_550_HUN	-32.1	-6.4	160.1	450
		MHUN	110kV	SBA1				450
APD		0.127						
oh1Cb	0	MWVEDENI -0.016	110kV	5506_BHN	-23.5	-5.1	117.7	450
		MBHN	110kV	SBA1				450
APD		0.059						
oh1Cb	0	MWVEDENI -0.005	110kV	_559_CHR	-4.1	1.1	20.8	450
		MCHR	110kV	SBA1				450
APD		1.003						
oh1Cb	0	MWVEDENI -0.076	110kV	_573_OKC	-15.8	-1.9	77.7	450
		MRYC	110kV	SBA1				450
APD		1.017						
oh1Cb	0	MWVEDENI -0.108	110kV	5516_OKC	-19.4	-3.3	96.4	420
		MUHD	110kV	SBA1				420
APD		0.565						
oh1Cb	0	MWVEDENI -0.108	110kV	5517_OKC	-19.4	-3.3	96.4	420
		MUHD	110kV	SBA1				420
APD		0.565						
oh1Cb	0	MWVEDENI -0.000	110kV	5518_FA_	-1.7	0.6	8.7	450
		MFA	110kV	SBA1				450
APD		0.284						
oh1Cb	0	MWVEDENI -0.000	110kV	5519_FA_	-1.7	0.6	8.7	450
		MFA	110kV	SBA1				450
APD		0.284						

01 UCH - zapojení bez můstku									
Trafo	F	MOKC	110kV	T401_cmp	279.7	40.4	1381.4	1837	
		-0.131							
		MOKC	110kV	SBV.T401				1837	
APD		55.706							

PQnod	O	MOKC	110kV	SBB1	0.0	-0.0	118.1	-7.72	
	elSn	NetGr							
								110.0	

1

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg	Ploss			Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							

Trafo	F	MOKC	400KV	T401_cmp	288.7	-23.2	1427.8	1837
	7	-0.420						
		MOKC	400KV	SBA				1837
APD		-96.459						
Trafo	F	MOKC	10kV	T401_cmp	-8.9	7.9	58.7	525
		-0.002						
		MOKC	10kV	SBT401				525
APD		-0.413						
Trafo	F	MOKC	110kV	T401_cmp	-279.9	15.3	1381.4	1837
		-0.131						
		MOKC	110kV	SBB1				1837
APD		55.706						

PQnod	O	MOKC	110kV	SBV.T401	0.0	-0.0	117.1	-19.07
	elSn	NetGr						
								110.0

1

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg	Ploss			Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							

Trafo	F	MOKC	400KV	T402_cmp	166.6	-1.1	814.0	1837
	6	-0.174						
		MOKC	400KV	SBB				1312
APD		-33.517						
Trafo	F	MOKC	10kV	T402_cmp	2.6	-0.9	13.4	525
		-0.000						
		MOKC	10kV	SBT402				525
APD		-0.022						
Trafo	F	MOKC	110kV	T402_cmp	-169.2	2.0	826.8	1837
		-0.052						
		MOKC	110kV	SBA1				1837
APD		23.014						

PQnod	O	MOKC	110kV	SBV.T402	0.0	-0.0	118.1	-11.59
	elSn	NetGr						
								110.0

1

01 UCH - zapojení bez můstku

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo	F	MOKC	400KV	T403_cmp	0.0	-0.0	0.0	1837
	5	-0.082	400KV	SBA				1312
APD		MOKC	10kv	T403_cmp	-0.0	-0.0	0.0	525
Trafo	F	0.000	10kv	T403_cmp				525
APD		MOKC	110kv	T403_cmp	0.0	-0.0	0.0	1837
Trafo	F	-0.000	110kv	T403_cmp				1837
APD		MOKC						
		0.000						
PQnod	O	MOKC	110kv	SBV.T403	-0.0	0.0	118.7	-0.34
	elSn	NetGr						110.0
1								

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo	F	MOKC	110kv	T403_cmp	-0.0	0.0	0.0	1837
		-0.000	110kv	SBV.T403				1837
APD		MOKC						
		0.000						
PQnod	F	MOKC	110kv	T403_cmp	0.0	0.0	118.7	-0.34
	elSn	NetGr						110.0
1								

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
ohlcb	F	MWVEDENI	400kv	417_OKC	40.2	-24.1	65.1	1200
		-0.044	400KV	SBV.KP2				1200
APD		MSO						
BBC	F	40.161	400KV	KP1cmp	249.0	97.4	371.1	9999
		MOKC	400KV	SBB				9999
DEF		0.000						
Trafo	F	MOKC	400KV	T401_cmp	-289.2	-73.2	414.1	505

01 UCH - zapojení bez můstku

7		-0.420						
APD		MOKC	110kV	SBV.T401				505
Trafo	F	-96.459	400kV	T403_cmp	-0.1	-0.0	0.1	505
5		MOKC	110kV	SBV.T403				361
APD		-0.082						
		MOKC						
		-0.000						

PQnod	F	MOKC	400kV	SBA	0.0	0.0	415.9	-0.33
elSn		NetGr						400.0

1

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

BBC	F	MOKC	400kV	KP1cmp	-249.0	-97.4	371.1	9999
		0.000						
		MOKC	400kV	SBA				9999
		0.000						
DEF	F	MOKC	400kV	T402_cmp	-166.7	-32.4	235.8	505
Trafo		-0.174	110kV	SBV.T402				361
6		MOKC						
APD		-33.517						

E	PVnod	F	MOKC	400kV	SBB	415.8	129.7	415.9	-0.33
	elSn		NetGr						400.0

1

Inj	F	MOKC	400kV	INJ.V418	415.8	129.7	604.6	28868
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

OhlCb	O	MWVEDENI	110kV	5505_OKC	13.6	3.5	68.7	450
		-0.006						
		MOKC	110kV	SBB1				450
		0.104						
APD	O	MWVEDENI	110kV	5508_BAR	-12.3	-3.7	63.0	450
OhlCb		-0.003						
		MBAR	110kV	SBA1				450
APD		0.041						

PQnod	O	MOK_D	110kV	SBA1	-1.3	0.3	118.0	-7.78
elSn		NetGr						110.0

1

Load	F	MOK_D	110kV	T101LOAD	-1.3	0.3	6.4	52
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01 UCH - zapojení bez můstku

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI	110kV	_542_HO_	-1.9	-5.2	27.3	450
		-0.003						
		MHO	110kV	SBB1				450
APD		0.348						
oh1Cb	0	MWVEDENI	110kV	_547_NAD	20.0	7.3	105.5	450
		-0.172						
		MNA_D	110kV	SBA1				450
APD		0.911						
Trafo	0	MPNV	110kV	T101_cmp	-18.1	-2.1	90.2	226
13		-0.083						
		MPNV	22kV	SBA1				226
APD		-1.128						
PQnod	0	MPNV	110kV	SBA1	0.0	-0.0	116.5	-6.80
elSn		NetGr						110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MPNV	110kV	T101_cmp	18.0	1.0	464.7	1128
13		-0.083						
		MPNV	110kV	SBA1				1128
APD		-1.128						
PQnod	0	MPNV	22kV	SBA1	-18.0	-1.0	22.40	-9.70
elSn		NetGr						22.00
1								
Load	0	MPNV	22kV	SBA1LOAD	-9.0	-0.5	232.4	2099
Load	0	MPNV	22kV	SBA2LOAD	-9.0	-0.5	232.4	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI	110kV	5577_NZD	32.6	4.7	165.9	450
		-0.240						
		MNZ_D	110kV	SBA1				450
APD		0.093						

01 UCH - zapojení bez můstku								
ohlCb	O	MWVEDENI	110kV	5578_PRT	31.3	5.3	159.9	450
		-0.363						
APD		MZDO	110kV	SBA1				450
		0.254						
ohlCb	O	MWVEDENI	110kV	5594_KNC	-9.3	-1.4	47.1	450
		-0.028						
APD		MKNC	110kV	SBA1				450
		0.930						
ohlCb	O	MWVEDENI	110kV	_556_PRT	-0.0	1.3	6.5	450
		-0.000						
APD		MWVEDENI	110kV	_556_PRT				450
		1.294						
Trafo	O	MPRT	110kV	T103_cmp	-31.5	-5.5	161.1	210
12		-0.090						
APD		MPRT	22kV	SBB1				210
		-3.126						
Trafo	O	MPRT	110kV	T101_cmp	-23.1	-4.4	118.6	210
12		-0.110						
APD		MPRT	22kV	SBA1				210
		-1.839						

PQnod	O	MPRT	110kV	SBA	-0.0	-0.0	114.6	-11.28
	elSn	NetGr						
1								110.0

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	O	MPRT	110kV	T101_cmp	23.0	2.6	599.5	1050
12		-0.110						
APD		MPRT	110kV	SBA				1050
		-1.839						

PQnod	O	MPRT	22kV	SBA1	-23.0	-2.6	22.29	-15.17
	elSn	NetGr						
1								22.00

Load	O	MPRT	22kV	SBA1LOAD	-11.5	-1.3	299.7	2756
Load	O	MPRT	22kV	SBA2LOAD	-11.5	-1.3	299.7	2756

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	O	MPRT	110kV	T103_cmp	31.4	2.4	816.2	1050
12		-0.090						
APD		MPRT	110kV	SBA				1050
		-3.126						

PQnod	O	MPRT	22kV	SBB1	-31.4	-2.4	22.28	-16.77
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01 UCH - zapojení bez můstku

elSn NetGr

22.00

1

Load	0	MPRT	22kV	SBB1LOAD	-15.7	-1.2	408.1	2756
Load	0	MPRT	22kV	SBB2LOAD	-15.7	-1.2	408.1	2756

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI	110kV	_573_OKC	15.7	2.9	78.6	450
		-0.076						
		MOKC	110kV	SBB1				450
APD		1.017						
Trafo	0	MRYC	110kV	T101_cmp	-15.7	-2.9	78.6	131
13		-0.102						
APD		MRYC	22kV	SB.A1				131
		-1.338						
PQnod	0	MRYC	110kV	SBA1	-0.0	0.0	117.3	-8.47
elSn		NetGr						110.0

1

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MRYC	110kV	T101_cmp	15.6	1.6	404.8	656
13		-0.102						
APD		MRYC	110kV	SBA1				656
		-1.338						
PQnod	0	MRYC	22kV	SB.A1	-15.6	-1.6	22.37	-12.72
elSn		NetGr						22.00

1

Load	0	MRYC	22kV	SBA1LOAD	-7.8	-0.8	202.4	1312
Load	0	MRYC	22kV	SBA2LOAD	-7.8	-0.8	202.4	1312

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI	110kV	5510_SLM	29.5	9.4	156.2	350

01 UCH - zapojení bez můstku								
APD	Trafo 11	0	-0.447 MUBR	110kV	SBB			350
			0.165 MSLM	110kV	T101_cmp	-29.5	-9.4	210
			-0.080 MSLM	22kV	SBA1			210
APD			-2.856					

	PQnod	0	MSLM	110kV	SBA1	-0.0	0.0	114.3
	elSn		NetGr					-6.77
	1							110.0
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=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	0	MSLM	110kV	T101_cmp	29.4	6.5	776.3	1050
11		-0.080	110kV	SBA1				1050
APD		-2.856						
-----								
	PQnod	0	MSLM	22kV	SBA1	-29.4	-6.5	22.39
	elSn		NetGr					-11.88
	1							22.00
-----								
Load	0	MSLM	22kV	SBA1LOAD	-29.4	-6.5	776.3	1706
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	0	MWVEDENI	110kV	5574_MAD	19.1	4.9	97.2	450
		-0.072						
		MMAD	110kV	SBA				450
APD		0.400						
OhlCb	0	MWVEDENI	110kV	_568_VST	5.2	2.2	27.7	450
		-0.009						
		MVST	110kV	SBB				450
APD		0.829						
Trafo	0	MSLU	110kV	T101_cmp	-24.3	-7.0	124.6	210
12		-0.120						
		MSLU	22kV	SBA1				210
APD		-2.015						

	PQnod	0	MSLU	110kV	SBA1	-0.0	0.0	117.3
	elSn		NetGr					-8.32
	1							110.0
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## 01 UCH - zapojení bez můstku

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 12	0	MSLU -0.120 MSLU -2.015	110kV 110kV	T101_cmp SBA1	24.2	5.0	629.4	1050 1050
APD								
PQnod elSn 1	0	MSLU NetGr	22kV	SBA1	-24.2	-5.0	22.67	-12.23 22.00
Load Load	0 0	MSLU MSLU	22kV 22kV	SBA1LOAD SBA2LOAD	-12.1 -12.1	-2.5 -2.5	314.7 314.7	1706 1706

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI 0.001 MMAD 0.043	110kV 110kV	5573_MAD SBA	-1.9	-1.7	12.5	450 450
APD Trafo 15	F	MSVI -0.037 MSVI -0.094	110kV 6kV	T114_cmp SBA	1.9	1.7	12.6	131 131
APD								
PQnod elSn 1	0	MSVI NetGr	110kV	SBV.T114	-0.0	-0.0	117.9	-7.91 110.0

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI 0.000 MMAD 0.039	110kV 110kV	5572_MAD SBA	-3.0	-2.8	19.8	450 450
APD Trafo 15	F	MSVI -0.028 MSVI -0.275	110kV 6kV	T115_cmp SBA	3.0	2.8	19.8	210 210
APD								
PQnod	0	MSVI	110kV	SBV.T115	0.0	-0.0	117.9	-7.91

## 01 UCH - zapojení bez můstku

eISn NetGr

110.0

1

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| Type
St1
(nodes:
St2 | Nm
Flg
Flg | Station
Ploss
Qloss | VL | Circuit
Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi
Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| Trafo
15 | F | MSVI
-0.037 | 110kV | T114_cmp | -2.0 | -1.8 | 252.1 | 2291 |
| APD | | MSVI
-0.094 | 110kV | SBV.T114 | | | | 2291 |
| Trafo
15 | F | MSVI
-0.028 | 110kV | T115_cmp | -3.0 | -3.0 | 404.6 | 3666 |
| APD | | MSVI
-0.275 | 110kV | SBV.T115 | | | | 3666 |
| PVnod
eISn | F | MSVI
NetGr | 6kV | SBA | 5.0 | 4.8 | 6.09 | -7.38 |
| 1 | | | | | | | | 6.30 |

| | | | | | | | | |
|------|---|------|-----|----------|-------|------|--------|------|
| Load | F | MSVI | 6kV | SBALOAD | -17.5 | -5.6 | 1742.7 | 9622 |
| Gen | F | MSVI | 6kV | GEN31cmp | 18.0 | 5.0 | 1766.7 | 751 |
| Gen | F | MSVI | 6kV | GEN6cmp | 4.5 | 5.5 | 672.0 | 751 |

| Type
St1
(nodes:
St2 | Nm
Flg
Flg | Station
Ploss
Qloss | VL | Circuit
Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi
Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| OhlCb | O | MWVEDENI
-0.638 | 110kV | 5570_OKC | 48.3 | 9.0 | 243.1 | 450 |
| APD | | MOKC
-0.828 | 110kV | SBA1 | | | | 450 |
| OhlCb | O | MWVEDENI
-0.638 | 110kV | 5571_OKC | 48.3 | 9.0 | 243.1 | 450 |
| APD | | MOKC
-0.828 | 110kV | SBA1 | | | | 450 |
| OhlCb | O | MWVEDENI
-0.137 | 110kV | _543_UBR | -25.9 | 0.7 | 128.2 | 450 |
| APD | | MVKA
0.347 | 110kV | SBA3 | | | | 450 |
| OhlCb | O | MWVEDENI
-0.447 | 110kV | 5510_SLM | -29.9 | -9.2 | 154.9 | 350 |
| APD | | MSLM
0.165 | 110kV | SBA1 | | | | 350 |
| Trafo
12 | O | MUBR
-0.113 | 110kV | T101_cmp | -22.7 | -6.2 | 116.5 | 210 |
| APD | | MUBR
-1.772 | 22kV | SBA1 | | | | 210 |
| Trafo
13 | O | MUBR
-0.049 | 110kV | T102_cmp | -18.0 | -3.4 | 90.9 | 210 |
| APD | | MUBR
-0.987 | 22kV | SBB1 | | | | 210 |

01 UCH - zapojení bez můstku

| PQnod | O | MUBR | 110kV | SBB | 0.0 | -0.0 | 116.7 | -5.77 |
|-------|---|-------|-------|-----|-----|------|-------|-------|
| elSn | | NetGr | | | | | | 110.0 |

1

~~~~~

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

Trafo	0	MUBR	110kV	T101_cmp	22.6	4.4	588.3	1050
12		-0.113	110kV	SBB				1050
APD		MUBR						
		-1.772						

PQnod	O	MUBR	22kV	SBA1	-22.6	-4.4	22.60	-9.52
elSn		NetGr						22.00

1

Load	0	MUBR	22kV	SBA1LOAD	-11.3	-2.2	294.2	2099
Load	0	MUBR	22kV	SBA2LOAD	-11.3	-2.2	294.2	2099

~~~~~

| Type | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg | | Ploss | | Busbar) | | | | Ilim/Vn |
| (nodes: | | | | | | | | |
| St2 Flg | | Qloss | | | | | | |

| | | | | | | | | |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | 0 | MUBR | 110kV | T102_cmp | 18.0 | 2.4 | 468.7 | 1050 |
| 13 | | -0.049 | 110kV | SBB | | | | 1050 |
| APD | | MUBR | | | | | | |
| | | -0.987 | | | | | | |

| PQnod | O | MUBR | 22kV | SBB1 | -18.0 | -2.4 | 22.37 | -8.82 |
|-------|---|-------|------|------|-------|------|-------|-------|
| elSn | | NetGr | | | | | | 22.00 |

1

| | | | | | | | | |
|------|---|------|------|----------|------|------|-------|------|
| Load | 0 | MUBR | 22kV | SBB1LOAD | -9.0 | -1.2 | 234.3 | 2099 |
| Load | 0 | MUBR | 22kV | SBB2LOAD | -9.0 | -1.2 | 234.3 | 2099 |

~~~~~

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

ohlCb	0	MWVEDENI	110kV	5516_OKC	19.3	3.9	97.1	420
		-0.108	110kV	SBB1				420
		MOKC						

# 01 UCH - zapojení bez můstku

APD	oh1Cb	0	0.565 MWVEDENI -0.108 MOKC	110kV	5517_OKC	19.3	3.9	97.1	420
				110kV	SBB1				420
APD	Trafo	0	0.565 MUHD	110kV	T101_cmp	-38.6	-7.8	194.2	210
	12		-0.248 MUHD	22kV	SBA				210
APD			-4.591						

PQnod	0	MUHD	110kV	SBA1	-0.0	0.0	117.2	-8.32
elSn		NetGr						110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MUHD	110kV	T101_cmp	38.4	3.2	982.6	1050
12		-0.248	110kV	SBA1				1050
APD		MUHD						
		-4.591						

PQnod	0	MUHD	22kV	SBA	-38.4	-3.2	22.64	-14.68
elSn		NetGr						22.00
1								

Load	0	MUHD	22kV	SBALOAD	-38.4	-3.2	982.5	2099
------	---	------	------	---------	-------	------	-------	------

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
oh1Cb	0	MWVEDENI	110kV	_540_VKA	-13.9	1.8	69.8	450
		-0.027	110kV	SBA7				450
APD		MVLM						
oh1Cb	0	0.392 MWVEDENI	110kV	_543_UBR	25.8	-0.4	128.2	450
		-0.137	110kV	SBB				450
APD		MUBR						
Trafo	0	0.347 MVKA	110kV	T103_cmp	-7.0	-1.1	35.4	131
13		-0.035	22kV	SBA				131
APD		MVKA						
		-0.363						

PQnod	0	MVKA	110kV	SBA3	-4.8	-0.3	116.1	-6.57
elSn		NetGr						110.0
1								

01 UCH - zapojení bez můstku

Load	F	MVKA	110kV	T102LOAD	-4.8	-0.3	23.9	131
------	---	------	-------	----------	------	------	------	-----

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
-------------------------------	------------------	---------------------------	----	--------------------	-------	-------	---------	-------------------

Trafo	0	MVKA	110kV	T103_cmp	7.0	0.7	181.8	656
13		-0.035	110kV	SBA3				656
APD		MVKA						
		-0.363						

PQnod	0	MVKA	22kV	SBA	-7.0	-0.7	22.34	-8.54
elSn		NetGr						22.00
1								

Load	0	MVKA	22kV	SBALOAD	-7.0	-0.7	181.8	1050
------	---	------	------	---------	------	------	-------	------

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
-------------------------------	------------------	---------------------------	----	--------------------	-------	-------	---------	-------------------

oh1Cb	0	MWVEDENI	110kV	_540_VKA	13.9	-1.4	69.6	450
		-0.027	110kV	SBA3				450
APD		0.392						
oh1Cb	0	MWVEDENI	110kV	_544_HO_	2.9	3.6	23.0	450
		-0.005	110kV	SBB1				450
APD		MHO						
		0.910	110kV	T103_cmp	-15.1	-2.1	75.9	131
Trafo	0	MVLM	110kV					
13		-0.097	22kV	SBA1				210
APD		MVLM						
		-1.316						

PQnod	0	MVLM	110kV	SBA7	-1.7	-0.1	116.0	-6.87
elSn		NetGr						110.0
1								

Load	F	MVLM	110kV	T102LOAD	-1.7	-0.1	8.5	84
------	---	------	-------	----------	------	------	-----	----

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
-------------------------------	------------------	---------------------------	----	--------------------	-------	-------	---------	-------------------

01 UCH - zapojení bez můstku								
Trafo	0	MVLM	110kV	T103_cmp	15.0	0.8	390.8	656
13		-0.097						
APD		MVLM	110kV	SBA7				1050
		-1.316						
-----								
PQnod	0	MVLM	22kV	SBA1	-15.0	-0.8	22.19	-11.11
elSn		NetGr						
1								22.00
-----								
Load	0	MVLM	22kV	SBA1LOAD	-7.5	-0.4	195.4	1706
Load	0	MVLM	22kV	SBA2LOAD	-7.5	-0.4	195.4	1706
~~~~~								
~~~~~								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	0	MWVEDENI	110kV	_567_MAD	5.2	1.3	26.3	450
		-0.012						
		MMAD	110kV	SBA				450
APD		1.178						
OhlCb	0	MWVEDENI	110kV	_568_VST	-5.2	-1.3	26.3	450
		-0.009						
		MSLU	110kV	SBA1				450
APD		0.829						
-----								
PQnod	F	MVST	110kV	SBB	-0.0	0.0	117.6	-8.16
elSn		NetGr						
1								110.0
~~~~~								
~~~~~								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	0	MWVEDENI	110kV	_556_PRT	-0.0	-0.0	0.0	450
		-0.000						
		MPRT	110kV	SBA				450
APD		1.294						
-----								
PQnod	0	MWVEDENI	110kV	_556_PRT	0.0	0.0	114.6	-11.29
elSn		NetGr						
1								110.0
~~~~~								
~~~~~								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

# 01 UCH - zapojení bez můstku

ohlcb	0	MWVEDENI -0.401	110kV	5576_OKC	44.1	6.7	220.9	450
APD		MOKC -0.447	110kV	SBB1				450
ohlcb	0	MWVEDENI -0.363	110kV	5578_PRT	-31.6	-5.1	158.7	450
APD		MPRT 0.254	110kV	SBA				450
Trafo 12	0	MZDO -0.043	110kV	T101_cmp	-12.4	-1.6	62.1	131
APD		MZDO -0.781	22kV	SBA1				131
PQnod elSn	0	MZDO NetGr	110kV	SBA1	-0.0	-0.0	116.6	-9.29
1								110.0
~~~~~								
~~~~~								
Type St1	Nm Flg	Station Ploss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
(nodes: St2	Flg	Qloss						
Trafo 12	0	MZDO -0.043	110kV	T101_cmp	12.4	0.8	314.3	656
APD		MZDO -0.781	110kV	SBA1				656
PQnod elSn	0	MZDO NetGr	22kV	SBA1	-12.4	-0.8	22.83	-12.53
1								22.00
Load	0	MZDO	22kV	SBA1LOAD	-6.2	-0.4	157.1	1312
Load	0	MZDO	22kV	SBA2LOAD	-6.2	-0.4	157.1	1312
~~~~~								
~~~~~								

**VYPOČTENÉ HODNOTY**

**ZKRATOVÉ POMĚRY PŘI TROJFÁZOVÉM  
ZKRATU PŘI ZAPOJENÍ BEZ MŮSTKU**

## 02 3f zkraty - zapojení bez můstku

```
=====
Short-Circuit 3-pole  Tue 03.05.11 10:59:08    Start: single    Name:05020906
Copenr:35
=====
```

### PROGRAM CHARACTERISTICS

```
-----
387 nodes                222 lines/cables
274 loads                13 busbar couplers
14 generators            205 transformers
38 injections/equiv.injections 0 equivalent branches
                             6 shunts

4 electrical sub-networks
37 limit violations
```

### PARAMETER

```
-----
Computation Mode      : all busbars, with contributions
Fault-Type           : 3-phase, L1 - L2 - L3
Motor Consideration: yes
Computation Method    : Equivalent Voltage Source (IEC)
Voltage Factor C      : 1.1
```

### FLAGS

```
-----
column1/2
* = diagnosis indication (discrepancies/limit violations)
```

Calculated value  
X undefined  
i invalid  
V limit violation

### Indicators for Network Membership

```
-----
O own
S subjacent own
B boundary
F foreign
R result NR
r to reduce
```

### Computation formulas for short-circuit calculation 3-pole

```
-----
Pre-fault voltage (Vfault):
- IEC-909      : 1.1*Vnominal
- Superposition : Vactual
Ik" (kA)       : Initial short-circuit current : Ik" = Vfault/(sqrt(3)*Zkk)
Sk" (MVA)      : Initial short-circuit power   : Sk" = sqrt(3)*Vnominal*I"k
Sbrk (MVA)     : Max. short-circuit break. power for CB
                Sbrk = Max(Sk"branch,Sk"bus-Sk"branch)
SbLim (MVA)    : Circuit Breaker breaking power limit
Vrem (kV)      : Voltage at busbar after short-circuit
Phi            : Phase angle
St1/St2        : Transformer tap position
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
vrem/vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: St2 Flg
=====
```

02 3f zkraty - zapojení bez můstku

ohlCb	O	MWVEDENI	110kV	5507_BAR	976.0	1197.0	3500	
		MBHN	110kV	SBA1	5.123	-83.3		
ohlCb	O	MWVEDENI	110kV	5508_BAR	1197.0	1197.0	3500	
		MOK_D	110kV	SBA1	6.283	-83.7		
-----								
FaultNd	O	MBAR	110kV	SBA1	2173.1		3500	
0.0/121.0		eISn	NetGr		11.406	-83.5		0.0
	1							
-----								
Load	F	MBAR	110kV	T101LOAD	0.0	2173.1	3500	
					0.000	0.0		
Load	F	MBAR	110kV	T102LOAD	0.0	2173.1	3500	
					0.000	0.0		
~~~~~								
~~~~~								

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault			St1 Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2 Flg						
=====								
ohlCb	O	MWVEDENI	110kV	5506_BHN	1668.5	1668.5	5000	
		MOKC	110kV	SBB1	8.757	-84.0		
ohlCb	O	MWVEDENI	110kV	5507_BAR	584.4	1668.5	3500	
		MBAR	110kV	SBA1	3.067	-84.1		
Trafo	O	MBHN	110kV	T101_cmp	0.0	2252.9	3500	
	13	MBHN	22kV	SBA	0.000	0.0		
Trafo	O	MBHN	110kV	T102_cmp	0.0	2252.9	3500	
	14	MBHN	22kV	SBB	0.000	-180.0		
-----								
FaultNd	O	MBHN	110kV	SBA1	2252.9		3500	
0.0/121.0		eISn	NetGr		11.824	-84.0		0.0
	1							
~~~~~								
~~~~~								

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault			St1 Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2 Flg						
=====								
Trafo	O	MBHN	110kV	T101_cmp	340.1	340.1	600	
	13	MBHN	110kV	SBA1	8.925	-86.9		

02 3f zkraty - zapojení bez můstku

FaultNd	O	MBHN	22kV	SBA	340.1	600	0.0/
24.2	elSn	NetGr			8.925	-86.9	0.0
1							

Load	O	MBHN	22kV	SBALOAD	0.0	340.1	600
					0.000	0.0	
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		st2	Flg				
~~~~~							

Trafo	O	MBHN	110kV	T102_cmp	342.4	342.4	600
	14				8.986	-87.8	
~~~~~							

FaultNd	O	MBHN	22kV	SBB	342.4	600	0.0/
24.2	elSn	NetGr			8.986	-87.8	0.0
1							

Load	O	MBHN	22kV	SBBLOAD	0.0	342.4	600
					0.000	0.0	
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		st2	Flg				
~~~~~							

ohlcb	O	MWVEDENI	110kV	_559_CHR	838.4	838.4	5000
		MOKC	110kV	SBB1	4.400	-74.4	
~~~~~							

FaultNd	F	MCHR	110kV	SBA1	838.4	3500	
0.0/121.0	elSn	NetGr			4.400	-74.4	0.0
1							

Load	F	MCHR	110kV	T102LOAD	0.0	838.4	3500
					0.000	0.0	
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		st2	Flg				
~~~~~							

02 3f zkraty - zapojení bez můstku

ohlCb	O	MWVEDENI	110kV	5518_FA_	997.6	997.6	5000	
		MOKC	110kV	SBB1	5.236	-83.3		
ohlCb	O	MWVEDENI	110kV	5519_FA_	997.6	997.6	5000	
		MOKC	110kV	SBB1	5.236	-83.3		
FaultNd	O	MFA	110kV	SBA1	1995.1		3500	
0.0/121.0		elSn	NetGr		10.472	-83.3		0.0
1								
Load	F	MFA	110kV	T102LOAD	0.0	1995.1	3500	
					0.000	0.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault		St1	Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2	Flg					
Trafo	O	MHO	110kV	T8_cmp	403.3	426.5	600	
		MHO	110kV	SBA1	23.287	-85.7		
*FaultNd	O	MHO	10kV	SBA3	829.9 V		600	0.0/
11.0		elSn	NetGr		47.913	-85.8		0.0
1								
Gen	F	MHO	10kV	GEN3cmp	426.5	426.5	600	
					24.626	-86.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault		St1	Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2	Flg					
Trafo	O	MHO	110kV	T10_cmp	403.3	426.5	600	
		MHO	110kV	SBA1	23.287	-85.7		
*FaultNd	O	MHO	10kV	SBA4	829.9 V		600	0.0/
11.0		elSn	NetGr		47.913	-85.8		0.0
1								
Gen	F	MHO	10kV	GEN.4cmp	426.5	426.5	600	

02 3f zkraty - zapojení bez můstku
24.626 -86.0

~~~~~  
~~~~~

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
vrem/vfault			St1 Flg	(Busbar)	I"k	Phi	PhiVrem
(nodes:		St2 Flg					
===== =====							
ohlCb	O	MWVEDENI	110kV	_533_HO_	311.3	1205.2	3500
		MTD	110kV	SB.A	1.634	-79.0	
ohlCb	O	MWVEDENI	110kV	_534_HO_	165.1	1351.3	3500
		MWVEDSBV	110kV	_534_A	0.867	-78.5	
ohlCb	O	MWVEDENI	110kV	_535_HO_	252.7	1264.6	5000
		MSO	110kV	SBA1	1.326	-76.1	
ohlCb	O	MWVEDENI	110kV	_536_HO_	259.0	1257.6	5000
		MSO	110kV	SBA1	1.359	-78.5	
Trafo	O	MHO	110kV	T10_cmp	266.4	1251.5	3500
		MHO	10kV	SBA4	1.398	-87.2	
Trafo	O	MHO	110kV	T13_cmp	0.0	1516.2	2500
	12	MHO	22kV	SBA	0.000	-180.0	
Trafo	O	MHO	110kV	T8_cmp	266.4	1251.5	3500
		MHO	10kV	SBA3	1.398	-87.2	

FaultNd	O	MHO	110kV	SBA1	1516.2		3500
0.0/121.0		eISn	NetGr		7.958	-81.2	0.0
	1						

Load	O	MHO	110kV	T12LOAD	0.0	1516.2	3500
					0.000	0.0	

~~~~~  
~~~~~

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
vrem/vfault			St1 Flg	(Busbar)	I"k	Phi	PhiVrem
(nodes:		St2 Flg					
===== =====							
ohlCb	O	MWVEDENI	110kV	_541_HO_	313.9	585.2	3500
		MKY	110kV	SBA1	1.648	-75.4	
ohlCb	O	MWVEDENI	110kV	_542_HO_	264.6	634.6	3500
		MPNV	110kV	SBA1	1.389	-75.7	

02 3f zkraty - zapojení bez můstku								
ohlCb	O	MWVEDENI	110kV	_544_HO_	320.7	578.5	3500	
		MVLM	110kV	SBA7	1.683	-74.5		

FaultNd	O	MHO	110kV	SBB1	899.1		3500	
0.0/121.0		eISn	NetGr		4.719	-75.2		0.0
1								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						
=====								
Trafo	O	MHO	110kV	T13_cmp	331.5	331.5	600	
	12							
		MHO	110kV	SBA1	8.699	-85.8		
-----								
FaultNd	O	MHO	22kV	SBA	331.5		600	0.0/
24.2		eISn	NetGr		8.699	-85.8		0.0
1								
-----								
Load	O	MHO	22kV	SBALOAD	0.0	331.5	600	
					0.000	0.0		
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						
=====								
ohlCb	O	MWVEDENI	110kV	_550_HUN	1133.6	1133.6	5000	
		MOKC	110kV	SBB1	5.950	-74.8		
Trafo	O	MHUN	110kV	T102_cmp	0.0	1133.6	3500	
	12							
		MHUN	22kV	SBA	0.000	0.0		

FaultNd	O	MHUN	110kV	SBA1	1133.6		3500	
0.0/121.0		eISn	NetGr		5.950	-74.8		0.0
1								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						

02 3f zkraty - zapojení bez můstku

=====								
=====								
Trafo	O	MHUN	110kV	T102_cmp	294.2	294.2	600	
	12	MHUN	110kV	SBA1	7.722	-84.6		
-----								
FaultNd	O	MHUN	22kV	SBA	294.2		600	0.0/
24.2	eISn	NetGr			7.722	-84.6		0.0
	1							
-----								
Load	O	MHUN	22kV	SBALOAD	0.0	294.2	600	
					0.000	0.0		
Load	O	MHUN	22kV	SBBLOAD	0.0	294.2	600	
					0.000	0.0		
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
=====								
oh1Cb	O	MWVEDENI	110kV	5594_KNC	447.2	447.2	3500	
		MPRT	110kV	SBA	2.347	-73.7		
Trafo	O	MKNC	110kV	T102_cmp	0.0	447.2	3500	
	12	MKNC	22kV	SBA1	0.000	0.0		
-----								
FaultNd	O	MKNC	110kV	SBA1	447.2		3500	
0.0/121.0	eISn	NetGr			2.347	-73.7		0.0
	1							
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
=====								
Trafo	O	MKNC	110kV	T102_cmp	158.2	158.2	600	
	12	MKNC	110kV	SBA1	4.152	-82.5		
-----								
FaultNd	O	MKNC	22kV	SBA1	158.2		600	0.0/
24.2	eISn	NetGr			4.152	-82.5		0.0
	1							
-----								
Load	O	MKNC	22kV	SBA1LOAD	0.0	158.2	600	
					0.000	0.0		
Load	O	MKNC	22kV	SBA2LOAD	0.0	158.2	600	

02 3f zkraty - zapojení bez můstku  
0.000 0.0

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Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
ohlCb	O	MWVEDENI	110kV	_546_KUN	691.1	691.1	5000	
		MOKC	110kV	SBA1	3.627	-76.9		
ohlCb	O	MWVEDENI	110kV	5540_KUN	247.2	691.1	3500	
		MNA_D	110kV	SBA1	1.298	-74.6		
Trafo	F	MKUN	110kV	T101_cmp	0.0	938.1	3500	
	13	MKUN	22kV	SBB1	0.000	-180.0		

FaultNd	O	MKUN	110kV	SBA1	938.1		3500	
0.0/121.0		eISn	NetGr		4.924	-76.3		0.0
	1							

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Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
Trafo	F	MKUN	110kV	T101_cmp	287.7	287.7	600	
	13	MKUN	110kV	SBA1	7.550	-83.6		

FaultNd	O	MKUN	22kV	SBB1	287.7		600	0.0/
24.2		eISn	NetGr		7.550	-83.6		0.0
	1							

Load	O	MKUN	22kV	SBB1LOAD	0.0	287.7	600	
					0.000	0.0		
Load	O	MKUN	22kV	SBB2LOAD	0.0	287.7	600	
					0.000	0.0		

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Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
ohlCb	O	MWVEDENI	110kV	_541_HO_	367.5	486.3	3500	

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		MHO	110kV	SBB1	1.929	-74.3		
OhlCb	O	MWVEDENI	110kV	_545_KY_	464.6	464.6	5000	
		MOKC	110kV	SBA1	2.439	-75.3		
Trafo	O	MKY	110kV	T101_cmp	22.1	832.1	3500	
	13	MKY	22kV	SBA1	0.116	-86.6		
Trafo	O	MKY	110kV	T102_cmp	0.0	853.7	3500	
	13	MKY	22kV	SBB1	0.000	0.0		
-----								
FaultNd	O	MKY	110kV	SBA1	853.7		3500	
0.0/121.0		eISn	NetGr		4.481	-75.1		0.0
	1							
~~~~~								
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=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2 Flg						
=====								
OhlCb	O	MKY	22kV	V352	119.1	140.9	600	
		MKY	22kV	SBA1	3.126	-80.6		
OhlCb	O	MKY	22kV	V353	119.1	140.9	600	
		MKY	22kV	SBA1	3.126	-80.6		
Trafo	O	MKY	22kV	BAT01cmp	21.9	238.2	800	
		MKY	6kV	SBV.T01	0.574	-86.8		
-----								
FaultNd	O	MKY	22kV	SBA	260.0		600	0.0/
24.2		eISn	NetGr		6.823	-81.1		0.0
	1							
~~~~~								
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=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi		Phivrem
(nodes:		St2 Flg						
=====								
OhlCb	O	MKY	22kV	V352	10.8	291.5	600	
		MKY	22kV	SBA	0.282	-86.5		
OhlCb	O	MKY	22kV	V353	10.8	291.5	600	
		MKY	22kV	SBA	0.282	-86.5		

02 3f zkraty - zapojení bez můstku								
Trafo	O	MKY	110kV	T101_cmp	280.8	280.8	600	
	13	MKY	110kV	SBA1	7.369	-82.7		
-----								
FaultNd	O	MKY	22kV	SBA1	302.3		600	0.0/
24.2	elSn	NetGr			7.932	-83.0		0.0
	1							
-----								
Load	O	MKY	22kV	SBA1LOAD	0.0	302.3	600	
					0.000	0.0		
Load	O	MKY	22kV	SBA2LOAD	0.0	302.3	600	
					0.000	0.0		
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg		I"k	Phi		PhiVrem
(nodes:		St2 Flg		Busbar)				
=====								
ohlCb	O	MKY	22kV	V19	255.0	255.0	600	
		MKY	22kV	SBB1	6.693	-79.0		
-----								
FaultNd	O	MKY	22kV	SBB	255.0		600	0.0/
24.2	elSn	NetGr			6.693	-79.0		0.0
	1							
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg		I"k	Phi		PhiVrem
(nodes:		St2 Flg		Busbar)				
=====								
ohlCb	O	MKY	22kV	V19	0.0	271.6	600	
		MKY	22kV	SBB	0.000	-180.0		
Trafo	O	MKY	110kV	T102_cmp	271.6	271.6	600	
	13	MKY	110kV	SBA1	7.127	-83.9		
-----								
FaultNd	O	MKY	22kV	SBB1	271.6		600	0.0/
24.2	elSn	NetGr			7.127	-83.9		0.0
	1							
-----								
Load	O	MKY	22kV	SBB1LOAD	0.0	271.6	600	
					0.000	0.0		
Load	O	MKY	22kV	SBB2LOAD	0.0	271.6	600	
					0.000	0.0		
~~~~~								

02 3f zkraty - zapojení bez můstku

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
st2 Flg								
Trafo	O	MKY	6kv	B1T01cmp	55.5	55.5	600	
		MKY	6kv	SBV.T01	5.084	-87.0		
FaultNd 6.9	O elSn	MKY NetGr	6kv	B1T01cmp	55.5		600	0.0/
					5.084	-87.0		0.0
1								

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
st2 Flg								
Trafo	O	MKY	22kv	BAT01cmp	73.6	73.6	600	
		MKY	22kv	SBA	6.742	-84.9		
Trafo	O	MKY	6kv	B1T01cmp	0.0	103.2	600	
		MKY	6kv	B1T01cmp	0.000	-180.0		
Trafo	O	MKY	6kv	B3T01cmp	29.6	73.6	600	
		MKY	6kv	SBV.TG3	2.716	-86.8		
FaultNd 6.9	O elSn	MKY NetGr	6kv	SBV.T01	103.2		600	0.0/
					9.457	-85.5		0.0
1								

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
st2 Flg								
Trafo	O	MKY	6kv	B3T01cmp	47.2	47.2	600	
		MKY	6kv	SBV.T01	4.329	-86.3		
FaultNd 6.9	O elSn	MKY NetGr	6kv	SBV.TG3	88.8		600	0.0/
					8.138	-86.1		0.0

02 3f zkraty - zapojení bez můstku

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Gen	F	MKY	6kV	GEN.3cmp	41.6 3.808	47.2 -86.0	600
~~~~~							
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Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:	st2 Flg						
=====							
ohlCb	O	MWVEDENI	110kV	5572_MAD	58.5	2209.6	3500
		MSVI	110kV	SBV.T115	0.307	-87.0	
ohlCb	O	MWVEDENI	110kV	5573_MAD	37.0	2230.9	3500
		MSVI	110kV	SBV.T114	0.194	-85.1	
ohlCb	O	MWVEDENI	110kV	5574_MAD	0.0	2267.9	3500
		MSLU	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5501_MAD	543.0	1725.1	5000
		MOKC	110kV	SBB1	2.850	-82.8	
ohlCb	O	MWVEDENI	110kV	5502_MAD	543.0	1725.1	5000
		MOKC	110kV	SBB1	2.850	-82.8	
ohlCb	O	MWVEDENI	110kV	5503_MAD	562.1	1705.9	5000
		MOKC	110kV	SBB1	2.950	-84.6	
ohlCb	O	MWVEDENI	110kV	_567_MAD	0.0	2267.9	3500
		MVST	110kV	SBB	0.000	0.0	
ohlCb	O	MWVEDENI	110kV	5509_MAD	524.8	1743.3	5000
		MMLE	110kV	SBA1	2.754	-84.8	
Trafo	O	MMAD	110kV	T101_cmp	0.0	2267.9	2500
	13	MMAD	22kV	SBA	0.000	0.0	
Trafo	O	MMAD	110kV	T102_cmp	0.0	2267.9	2500
	13	MMAD	22kV	SBB3	0.000	-180.0	

FaultNd	O	MMAD	110kV	SBA	2267.9		5000
0.0/121.0		e1Sn	NetGr		11.904	-83.8	0.0
1							
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Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg				

(nodes:		02 3f zkraty - zapojení bez můstku		Busbar)		I"k	Phi	Phivrem
St2 Flg								
=====								
Trafo	O	MMAD	110kv	T101_cmp	226.9	226.9	600	
	13	MMAD	110kv	SBA	5.954	-87.7		

FaultNd	O	MMAD	22kv	SBA	226.9		600	0.0/
24.2	eISn	NetGr			5.954	-87.7		0.0
	1							

Load	O	MMAD	22kv	SBALOAD	0.0	226.9	600	
					0.000	0.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault			St1 Flg					
(nodes:		St2 Flg		Busbar)		I"k	Phi	Phivrem
=====								
Trafo	O	MMAD	110kv	T102_cmp	340.5	340.5	600	
	13	MMAD	110kv	SBA	8.935	-86.9		

FaultNd	O	MMAD	22kv	SBB3	340.5		600	0.0/
24.2	eISn	NetGr			8.935	-86.9		0.0
	1							

Load	O	MMAD	22kv	SBB1LOAD	0.0	340.5	600	
					0.000	0.0		
Load	O	MMAD	22kv	SBB2LOAD	0.0	340.5	600	
					0.000	0.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault			St1 Flg					
(nodes:		St2 Flg		Busbar)		I"k	Phi	Phivrem
=====								
ohlCb	O	MWVEDENI	110kv	5504_MLE	1917.2	1917.2	3500	
		MOKC	110kv	SBB1	10.063	-85.9		
ohlCb	O	MWVEDENI	110kv	5509_MAD	402.7	1917.2	3500	
		MMAD	110kv	SBA	2.113	-79.6		

FaultNd	O	MMLE	110kv	SBA1	2317.9		3500	
0.0/121.0	eISn	NetGr			12.166	-84.8		0.0

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02 3f zkraty - zapojení bez můstku

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Load	F	MMLE	110kV	T101LOAD	0.0 0.000	2317.9 0.0	3500
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Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:	St2	Flg					
=====							
ohlCb	O	MWVEDENI	110kV	_547_NAD	280.5	582.6	3500
		MPNV	110kV	SBA1	1.472	-74.1	
ohlCb	O	MWVEDENI	110kV	5540_KUN	582.6	582.6	3500
		MKUN	110kV	SBA1	3.058	-76.5	

FaultNd	O	MNA_D	110kV	SBA1	863.0		3500
0.0/121.0		eISn	NetGr		4.530	-75.7	0.0
1							
Load	F	MNA_D	110kV	T102LOAD	0.0 0.000	863.0 0.0	3500
Load	F	MNA_D	110kV	T1LOAD	0.0 0.000	863.0 0.0	3500
~~~~~							
~~~~~							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:	St2	Flg					
=====							
ohlCb	O	MWVEDENI	110kV	5575_NZD	533.3	533.3	3500
		MOKC	110kV	SBB1	2.799	-77.0	
ohlCb	O	MWVEDENI	110kV	5577_NZD	261.3	533.3	3500
		MPRT	110kV	SBA	1.371	-77.0	

FaultNd	O	MNZ_D	110kV	SBA1	794.6		3500
0.0/121.0		eISn	NetGr		4.170	-77.0	0.0
1							
Load	F	MNZ_D	110kV	T101LOAD	0.0 0.000	794.6 0.0	3500
Load	F	MNZ_D	110kV	T111LOAD	0.0 0.000	794.6 0.0	3500
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02 3f zkraty - zapojení bez můstku

Type vrem/vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
St2 Flg								
Trafo	F	MOKC	10kV	T401_cmp	274.4	274.4	600	
		MOKC	110kV	SBV.T401	15.844	-89.4		

FaultNd 11.0	O elSn	MOKC NetGr	10kV	SBT401	274.4		600	0.0/
					15.844	-89.4		0.0

Load	O	MOKC	10kV	SBT401LO	0.0 0.000	274.4 0.0	600	
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Type vrem/vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
St2 Flg								
Trafo	F	MOKC	10kV	T402_cmp	257.8	257.8	600	
		MOKC	110kV	SBV.T402	14.881	-89.5		

FaultNd 11.0	O elSn	MOKC NetGr	10kV	SBT402	257.8		600	0.0/
					14.881	-89.5		0.0

Load	O	MOKC	10kV	SBT402LO	0.0 0.000	257.8 0.0	600	
~~~~~								
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Type vrem/vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	Phivrem
St2 Flg								
Trafo	F	MOKC	10kV	T403_cmp	277.6	277.6	600	
		MOKC	110kV	SBV.T403	16.025	-89.5		

FaultNd 11.0	F elSn	MOKC NetGr	10kV	T403_cmp	277.6		600	0.0/
					16.025	-89.5		0.0

Load	O	MOKC	10kV	SBT403LO	0.0 0.000	277.6 0.0	600	
~~~~~								
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Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:	St2	Flg					
ohlCb	O	MWVEDENI	110kV	5570_OKC	2.6	2759.1	3500
		MUBR	110kV	SBB	0.014	-85.1	
ohlCb	O	MWVEDENI	110kV	5571_OKC	2.6	2759.1	3500
		MUBR	110kV	SBB	0.014	-85.1	
ohlCb	O	MWVEDENI	110kV	_545_KY_	12.0	2749.6	3500
		MKY	110kV	SBA1	0.063	-86.7	
ohlCb	O	MWVEDENI	110kV	_546_KUN	4.3	2757.4	3500
		MKUN	110kV	SBA1	0.023	-86.3	
Trafo	F	MOKC	110kV	T402_cmp	2740.1	2740.1	3500
		MOKC	110kV	SBV.T402	14.382	-86.0	

FaultNd	O	MOKC	110kV	SBA1	2761.7		5000
0.0/121.0	eISn	NetGr			14.495	-86.0	0.0
1							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:	St2	Flg					
ohlCb	O	MWVEDENI	110kV	5575_NZD	0.0	2579.0	5000
		MNZ_D	110kV	SBA1	0.000	0.0	
ohlCb	O	MWVEDENI	110kV	5576_OKC	0.0	2579.0	3500
		MZDO	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5501_MAD	23.7	2555.3	5000
		MMAD	110kV	SBA	0.124	-85.2	
ohlCb	O	MWVEDENI	110kV	5502_MAD	23.7	2555.3	5000
		MMAD	110kV	SBA	0.124	-85.2	
ohlCb	O	MWVEDENI	110kV	5503_MAD	24.6	2554.4	5000
		MMAD	110kV	SBA	0.129	-87.0	
ohlCb	O	MWVEDENI	110kV	5504_MLE	22.9	2556.1	5000

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		MMLE	110kV	SBA1	0.120	-87.2	
ohlCb	O	MWVEDENI	110kV	5505_OKC	0.0	2579.0	3500
		MOK_D	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	_550_HUN	0.0	2579.0	3500
		MHUN	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5506_BHN	0.0	2579.0	3500
		MBHN	110kV	SBA1	0.000	0.0	
ohlCb	O	MWVEDENI	110kV	_559_CHR	0.0	2579.0	3500
		MCHR	110kV	SBA1	0.000	0.0	
ohlCb	O	MWVEDENI	110kV	_573_OKC	0.0	2579.0	3500
		MRYC	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5516_OKC	0.0	2579.0	3500
		MUHD	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5517_OKC	0.0	2579.0	3500
		MUHD	110kV	SBA1	0.000	-180.0	
ohlCb	O	MWVEDENI	110kV	5518_FA_	0.0	2579.0	3500
		MFA	110kV	SBA1	0.000	0.0	
ohlCb	O	MWVEDENI	110kV	5519_FA_	0.0	2579.0	3500
		MFA	110kV	SBA1	0.000	0.0	
Trafo	F	MOKC	110kV	T401_cmp	2484.1	2484.1	3500
		MOKC	110kV	SBV.T401	13.038	-86.3	

FaultNd	O	MOKC	110kV	SBB1	2579.0		5000
0.0/121.0		eISn	NetGr		13.536	-86.3	0.0
1							
~~~~~							
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/vfault		St1	Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		St2	Flg				
=====							
Trafo	F	MOKC	400KV	T401_cmp	889.7	889.7	3500
		7					
		MOKC	400KV	SBA	4.670	-88.8	
Trafo	F	MOKC	10kV	T401_cmp	0.0	992.8	5000
		MOKC	10kV	SBT401	0.000	0.0	
Trafo	F	MOKC	110kV	T401_cmp	103.2	889.7	3500

02 3f zkraty - zapojení bez můstku

MOKC 110kV SBB1 0.542 -85.8

```
-----
FaultNd 0 MOKC 110kV SBV.T401 992.8 99999
0.0/121.0 eISn NetGr
                    5.211 -88.4 0.0
1
~~~~~
~~~~~
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: St2 Flg
=====
```

```
Trafo F MOKC 400KV T402_cmp 831.0 831.0 3500
        6 MOKC 400KV SBB 4.362 -88.9
Trafo F MOKC 10kV T402_cmp 0.0 853.0 5000
        MOKC 10kV SBT402 0.000 -180.0
Trafo F MOKC 110kV T402_cmp 22.1 831.0 5000
        MOKC 110kV SBA1 0.116 -86.1
-----
```

```
-----
FaultNd 0 MOKC 110kV SBV.T402 853.0 99999
0.0/121.0 eISn NetGr
                    4.477 -88.8 0.0
1
~~~~~
~~~~~
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: St2 Flg
=====
```

```
Trafo F MOKC 400KV T403_cmp 906.7 906.7 3500
        5 MOKC 400KV SBA 4.759 -88.8
Trafo F MOKC 10kV T403_cmp 0.0 906.7 5000
        MOKC 10kV T403_cmp 0.000 -180.0
Trafo F MOKC 110kV T403_cmp 0.0 906.7 5000
        MOKC 110kV T403_cmp 0.000 -180.0
-----
```

```
-----
FaultNd 0 MOKC 110kV SBV.T403 906.7 99999
0.0/121.0 eISn NetGr
                    4.759 -88.8 0.0
1
~~~~~
~~~~~
```

02 3f zkraty - zapojení bez můstku

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
Trafo	F	MOKC	110kV	T403_cmp	2515.1	2515.1	5000	
		MOKC	110kV	SBV.T403	13.201	-86.4		
FaultNd 0.0/121.0	F	MOKC elSn	110kV NetGr	T403_cmp	2515.1		5000	
					13.201	-86.4		0.0
1								

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
OhlCb	F	MWVEDENI	400kV	417_OKC	5745.7	6512.0	30000	
		MSO	400KV	SBV.KP2	8.293	-82.9		
BBC	F	MOKC	400KV	KP1cmp	6405.6	6405.6	25000	
		MOKC	400KV	SBB	9.246	-73.4		
Trafo	F	MOKC	400KV	T401_cmp	109.0	12110.2	25000	
		MOKC	110kV	SBV.T401	0.157	-86.2		
Trafo	F	MOKC	400KV	T403_cmp	0.0	12218.1	25000	
		MOKC	110kV	SBV.T403	0.000	0.0		
FaultNd 0.0/440.0	F	MOKC elSn	400KV NetGr	SBA	12218.1		25000	
					17.635	-77.9		0.0
1								

Type Vrem/Vfault (nodes:	Nm	Station	VL St1 Flg	Circuit Busbar)	S"k I"k	Sbrk Phi	SbLim	PhiVrem
St2 Flg								
BBC	F	MOKC	400KV	KP1cmp	5854.6	6405.6	25000	
		MOKC	400KV	SBA	8.450	-82.9		
Trafo	F	MOKC	400KV	T402_cmp	25.4	12192.9	25000	
6								

MOKC 02 3f zkraty - zapojení bez můstku
110kV SBV.T402 0.037 -86.2

```
-----
E FaultNd F MOKC 400kV SBB 12218.1 25000
0.0/440.0 eISn NetGr
1 17.635 -77.9 0.0
-----
```

```
-----
Inj F MOKC 400kV INJ.V418 6380.8 6380.8 20000
9.210 -73.4
~~~~~
~~~~~
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
vrem/vfault St1 Flg (nodes: Busbar) I"k Phi Phivrem
St2 Flg
=====
ohlcb O MWVEDENI 110kV 5505_OKC 1513.7 1513.7 5000
MOKC 110kV SBB1 7.945 -83.9
ohlcb O MWVEDENI 110kV 5508_BAR 703.0 1513.7 3500
MBAR 110kV SBA1 3.690 -83.7
-----
```

```
-----
FaultNd O MOK_D 110kV SBA1 2216.8 3500
0.0/121.0 eISn NetGr
1 11.635 -83.8 0.0
-----
```

```
-----
Load F MOK_D 110kV T101LOAD 0.0 2216.8 3500
0.000 0.0
~~~~~
~~~~~
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
vrem/vfault St1 Flg (nodes: Busbar) I"k Phi Phivrem
St2 Flg
=====
ohlcb O MWVEDENI 110kV _542_HO_ 516.6 516.6 3500
MHO 110kV SBB1 2.712 -74.5
ohlcb O MWVEDENI 110kV _547_NAD 309.4 516.6 3500
MNA_D 110kV SBA1 1.624 -75.3
Trafo O MPNV 110kV T101_cmp 0.0 826.0 3500
13 MPNV 22kV SBA1 0.000 0.0
-----
```

```
-----
FaultNd O MPNV 110kV SBA1 826.0 3500
0.0/121.0 eISn NetGr
4.336 -74.8 0.0
```

02 3f zkraty - zapojení bez můstku

1

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault		St1	Flg	(Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
Trafo	O	MPNV	110kV	T101_cmp	285.3	285.3	600	
	13	MPNV	110kV	SBA1	7.486	-82.5		
FaultNd	O	MPNV	22kV	SBA1	285.3		600	0.0/
24.2	eISn	NetGr			7.486	-82.5		0.0
	1							
Load	O	MPNV	22kV	SBA1LOAD	0.0	285.3	600	
					0.000	0.0		
Load	O	MPNV	22kV	SBA2LOAD	0.0	285.3	600	
					0.000	0.0		

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
vrem/vfault		St1	Flg	(Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
OhlCb	O	MWVEDENI	110kV	5577_NZD	351.7	376.3	3500	
		MNZ_D	110kV	SBA1	1.846	-76.7		
OhlCb	O	MWVEDENI	110kV	5578_PRT	376.3	376.3	3500	
		MZDO	110kV	SBA1	1.975	-76.7		
OhlCb	O	MWVEDENI	110kV	5594_KNC	0.0	728.0	3500	
		MKNC	110kV	SBA1	0.000	0.0		
OhlCb	O	MWVEDENI	110kV	_556_PRT	0.0	728.0	3500	
		MWVEDENI	110kV	_556_PRT	0.000	-180.0		
Trafo	O	MPRT	110kV	T103_cmp	0.0	728.0	35000	
	12	MPRT	22kV	SBB1	0.000	-180.0		
Trafo	O	MPRT	110kV	T101_cmp	0.0	728.0	35000	
	12	MPRT	22kV	SBA1	0.000	0.0		
FaultNd	O	MPRT	110kV	SBA	728.0		3500	
0.0/121.0	eISn	NetGr			3.821	-76.7		0.0
	1							

02 3f zkraty - zapojení bez můstku

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	(Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						
Trafo	0	MPRT	110kv	T101_cmp	261.1	261.1	600	
	12	MPRT	110kv	SBA	6.851	-83.2		
FaultNd	0	MPRT	22kv	SBA1	261.1		600	0.0/
24.2	elSn	NetGr			6.851	-83.2		0.0
	1							
Load	0	MPRT	22kv	SBA1LOAD	0.0	261.1	600	
					0.000	0.0		
Load	0	MPRT	22kv	SBA2LOAD	0.0	261.1	600	
					0.000	0.0		

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	(Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						
Trafo	0	MPRT	110kv	T103_cmp	256.6	256.6	600	
	12	MPRT	110kv	SBA	6.735	-84.1		
FaultNd	0	MPRT	22kv	SBB1	256.6		600	0.0/
24.2	elSn	NetGr			6.735	-84.1		0.0
	1							
Load	0	MPRT	22kv	SBB1LOAD	0.0	256.6	600	
					0.000	0.0		
Load	0	MPRT	22kv	SBB2LOAD	0.0	256.6	600	
					0.000	0.0		

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg	(Busbar)	I"k	Phi		PhiVrem
(nodes:		st2 Flg						
oh1Cb	0	MWVEDENI	110kv	_573_OKC	745.4	745.4	5000	
		MOKC	110kv	SBB1	3.912	-75.5		

02 3f zkraty - zapojení bez můstku								
Trafo	O	MRYC	110kV	T101_cmp	0.0	745.4	2500	
	13	MRYC	22kV	SB.A1	0.000	-180.0		

FaultNd	O	MRYC	110kV	SBA1	745.4		3500	
0.0/121.0		eISn	NetGr		3.912	-75.5		0.0
	1							
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
=====								
Trafo	O	MRYC	110kV	T101_cmp	191.0	191.0	600	
	13	MRYC	110kV	SBA1	5.012	-83.5		
-----								
FaultNd	O	MRYC	22kV	SB.A1	191.0		600	0.0/
24.2		eISn	NetGr		5.012	-83.5		0.0
	1							
-----								
Load	O	MRYC	22kV	SBA1LOAD	0.0	191.0	600	
					0.000	0.0		
Load	O	MRYC	22kV	SBA2LOAD	0.0	191.0	600	
					0.000	0.0		
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault		St1	Flg	Busbar)	I"k	Phi		PhiVrem
(nodes:		St2	Flg					
=====								
OhlCb	O	MWVEDENI	110kV	5510_SLM	642.5	642.5	3500	
		MUBR	110kV	SBB	3.372	-67.0		
Trafo	O	MSLM	110kV	T101_cmp	0.0	642.5	3500	
	11	MSLM	22kV	SBA1	0.000	0.0		

FaultNd	O	MSLM	110kV	SBA1	642.5		3500	
0.0/121.0		eISn	NetGr		3.372	-67.0		0.0
	1							
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault		St1	Flg					

(nodes:		02 3f zkraty - zapojení bez můstku		Busbar)		I"k	Phi	Phivrem
St2 Flg								
=====								
Trafo	O	MSLM	110kv	T101_cmp	243.3	243.3	600	
	11	MSLM	110kv	SBA1	6.385	-80.0		
-----								
FaultNd	O	MSLM	22kv	SBA1	243.3		600	0.0/
24.2	eISn	NetGr			6.385	-80.0		0.0
	1							
-----								
Load	O	MSLM	22kv	SBA1LOAD	0.0	243.3	600	
					0.000	0.0		
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg					
(nodes:				Busbar)	I"k	Phi		Phivrem
St2 Flg								
=====								
OhlCb	O	MWVEDENI	110kv	5574_MAD	981.1	981.1	5000	
		MMAD	110kv	SBA	5.150	-75.8		
OhlCb	O	MWVEDENI	110kv	_568_VST	265.0	981.1	3500	
		MVST	110kv	SBB	1.391	-74.8		
Trafo	O	MSLU	110kv	T101_cmp	0.0	1246.1	3500	
	12	MSLU	22kv	SBA1	0.000	0.0		
-----								
FaultNd	O	MSLU	110kv	SBA1	1246.1		3500	
0.0/121.0	eISn	NetGr			6.540	-75.6		0.0
	1							
~~~~~								
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	
Vrem/Vfault			St1 Flg					
(nodes:				Busbar)	I"k	Phi		Phivrem
St2 Flg								
=====								
Trafo	O	MSLU	110kv	T101_cmp	311.4	311.4	600	
	12	MSLU	110kv	SBA1	8.172	-84.2		
-----								
FaultNd	O	MSLU	22kv	SBA1	311.4		600	0.0/
24.2	eISn	NetGr			8.172	-84.2		0.0
	1							

## 02 3f zkraty - zapojení bez můstku

Load	O	MSLU	22kV	SBA1LOAD	0.0 0.000	311.4 0.0	600
Load	O	MSLU	22kV	SBA2LOAD	0.0 0.000	311.4 0.0	600
~~~~~							
~~~~~							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		St2 Flg					
~~~~~							
ohlCb	O	MWVEDENI	110kV	5573_MAD	2085.2	2085.2	5000
		MMAD	110kV	SBA	10.944	-83.1	
Trafo	F	MSVI	110kV	T114_cmp	46.6	2085.2	2500
	15	MSVI	6kV	SBA	0.245	-87.8	
~~~~~							
FaultNd	O	MSVI	110kV	SBV.T114	2131.6		3500
0.0/121.0		elSn	NetGr		11.188	-83.2	0.0
	1						
~~~~~							
~~~~~							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		St2 Flg					
~~~~~							
ohlCb	O	MWVEDENI	110kV	5572_MAD	2066.5	2066.5	3500
		MMAD	110kV	SBA	10.846	-83.0	
Trafo	F	MSVI	110kV	T115_cmp	68.1	2066.5	2500
	15	MSVI	6kV	SBA	0.358	-88.6	
~~~~~							
FaultNd	O	MSVI	110kV	SBV.T115	2134.4		3500
0.0/121.0		elSn	NetGr		11.202	-83.2	0.0
	1						
~~~~~							
~~~~~							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	Busbar)	I"k	Phi	PhiVrem
(nodes:		St2 Flg					
~~~~~							
Trafo	F	MSVI	110kV	T114_cmp	217.4	455.1	600
	15	MSVI	110kV	SBV.T114	19.919	-85.4	

02 3f zkraty - zapojení bez můstku

Trafo	F	MSVI	110kV	T115_cmp	343.0	343.0	600
	15	MSVI	110kV	SBV.T115	31.433	-87.2	

*FaultNd	F	MSVI	6kV	SBA	672.4 V		600
6.9	elSn	NetGr			61.620	-86.4	0.0/
	1						0.0

*Load	F	MSVI	6kV	SBALOAD	0.0 V	672.4 V	600
					0.000 V	0.0	
*Gen	F	MSVI	6kV	GEN31cmp	56.1 V	616.3 V	600
					5.138 V	-86.0	
*Gen	F	MSVI	6kV	GEN6cmp	56.1 V	616.3 V	600
					5.138 V	-86.0	
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	(Busbar)	I"k	Phi	PhiVrem
(nodes:	st2	Flg					
=====							
OhlCb	O	MWVEDENI	110kV	5570_OKC	611.6	786.2	5000
		MOKC	110kV	SBA1	3.210	-78.5	
OhlCb	O	MWVEDENI	110kV	5571_OKC	611.6	786.2	5000
		MOKC	110kV	SBA1	3.210	-78.5	
OhlCb	O	MWVEDENI	110kV	_543_UBR	174.6	1223.2	3500
		MVKA	110kV	SBA3	0.917	-77.2	
OhlCb	O	MWVEDENI	110kV	5510_SLM	0.0	1397.8	3500
		MSLM	110kV	SBA1	0.000	0.0	
Trafo	O	MUBR	110kV	T101_cmp	0.0	1397.8	3500
	12	MUBR	22kV	SBA1	0.000	0.0	
Trafo	O	MUBR	110kV	T102_cmp	0.0	1397.8	3500
	13	MUBR	22kV	SBB1	0.000	0.0	

FaultNd	O	MUBR	110kV	SBB	1397.8		3500
0.0/121.0	elSn	NetGr			7.337	-78.4	0.0
	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg	(Busbar)	I"k	Phi	PhiVrem
(nodes:	st2	Flg					

02 3f zkraty - zapojení bez můstku

Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	Phivrem
vrem/vfault			St1 Flg	(Busbar)	I"k	Phi		
(nodes:		St2 Flg						
Trafo	0	MUBR	110kV	T101_cmp	318.1	318.1	600	
	12	MUBR	110kV	SBB	8.347	-85.1		
FaultNd	0	MUBR	22kV	SBA1	318.1		600	0.0/
24.2	elSn	NetGr			8.347	-85.1		0.0
	1							
Load	0	MUBR	22kV	SBA1LOAD	0.0	318.1	600	
					0.000	0.0		
Load	0	MUBR	22kV	SBA2LOAD	0.0	318.1	600	
					0.000	0.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	Phivrem
vrem/vfault			St1 Flg	(Busbar)	I"k	Phi		
(nodes:		St2 Flg						
Trafo	0	MUBR	110kV	T102_cmp	322.2	322.2	600	
	13	MUBR	110kV	SBB	8.456	-86.0		
FaultNd	0	MUBR	22kV	SBB1	322.2		600	0.0/
24.2	elSn	NetGr			8.456	-86.0		0.0
	1							
Load	0	MUBR	22kV	SBB1LOAD	0.0	322.2	600	
					0.000	0.0		
Load	0	MUBR	22kV	SBB2LOAD	0.0	322.2	600	
					0.000	0.0		
~~~~~								
~~~~~								
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim	Phivrem
vrem/vfault			St1 Flg	(Busbar)	I"k	Phi		
(nodes:		St2 Flg						
ohlCb	0	MWVEDENI	110kV	5516_OKC	700.9	700.9	5000	
		MOKC	110kV	SBB1	3.679	-76.3		
ohlCb	0	MWVEDENI	110kV	5517_OKC	700.9	700.9	5000	
		MOKC	110kV	SBB1	3.679	-76.3		
Trafo	0	MUHD	110kV	T101_cmp	0.0	1401.8	3500	
	12	MUHD	22kV	SBA	0.000	0.0		

02 3f zkraty - zapojení bez můstku

```

-----
FaultNd 0 MUHD 110kV SBA1 1401.8 3500
0.0/121.0 eISn NetGr
              7.358 -76.3 0.0
1
~~~~~
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk SbLim
Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: st2 Flg
=====

```

```

=====
Trafo 0 MUHD 110kV T101_cmp 318.7 318.7 600
12 MUHD 110kV SBA1 8.363 -84.6
-----

```

```

-----
FaultNd 0 MUHD 22kV SBA 318.7 600 0.0/
24.2 eISn NetGr
              8.363 -84.6 0.0
1
-----

```

```

Load 0 MUHD 22kV SBALOAD 0.0 318.7 600
0.000 0.0
~~~~~
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk SbLim
Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: st2 Flg
=====

```

```

=====
OhlCb 0 MWVEDENI 110kV _540_VKA 285.4 669.5 3500
MVLM 110kV SBA7 1.498 -75.2
OhlCb 0 MWVEDENI 110kV _543_UBR 669.5 669.5 3500
MUBR 110kV SBB 3.514 -75.3
Trafo 0 MVKA 110kV T103_cmp 0.0 954.9 3500
13 MVKA 22kV SBA 0.000 0.0
-----

```

```

-----
FaultNd 0 MVKA 110kV SBA3 954.9 3500
0.0/121.0 eISn NetGr
              5.012 -75.3 0.0
1
-----

```

```

Load F MVKA 110kV T102LOAD 0.0 954.9 3500
0.000 0.0
~~~~~
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk SbLim

```

02 3f zkraty - zapojení bez můstku

Vrem/Vfault (nodes:	St1 Flg	Busbar)	I"k	Phi	PhiVrem	
St2 Flg						
Trafo	0 MVKA	110kv	T103_cmp	200.5	200.5	600
13 MVKA	110kv	SBA3	5.263	-84.2		
FaultNd 0 MVKA	22kv	SBA	200.5		600	0.0/
24.2 eISn NetGr			5.263	-84.2		0.0
1						
Load	0 MVKA	22kv	SBALOAD	0.0	200.5	600
			0.000	0.0		
~~~~~						
~~~~~						
Type Nm Station VL	Circuit	S"k	Sbrk	SbLim		
Vrem/Vfault	St1 Flg	I"k	Phi	PhiVrem		
(nodes:	St2 Flg					
oh1Cb	0 MWVEDENI	110kv	_540_VKA	506.8	506.8	3500
	MVKA	110kv	SBA3	2.660	-74.6	
oh1Cb	0 MWVEDENI	110kv	_544_HO_	357.8	506.8	3500
	MHO	110kv	SBB1	1.878	-74.9	
Trafo	0 MVLM	110kv	T103_cmp	0.0	864.6	3500
13 MVLM	22kv	SBA1	0.000	-180.0		
FaultNd 0 MVLM	110kv	SBA7	864.6		3500	
0.0/121.0 eISn NetGr			4.538	-74.7		0.0
1						
Load	F MVLM	110kv	T102LOAD	0.0	864.6	3500
			0.000	0.0		
~~~~~						
~~~~~						
Type Nm Station VL	Circuit	S"k	Sbrk	SbLim		
Vrem/Vfault	St1 Flg	I"k	Phi	PhiVrem		
(nodes:	St2 Flg					
Trafo	0 MVLM	110kv	T103_cmp	196.6	196.6	600
13 MVLM	110kv	SBA7	5.161	-83.8		
~~~~~						

02 3f zkraty - zapojení bez můstku  
 FaultNd 0 MVLN 22kV SBA1 196.6 600 0.0/  
 24.2 elSn NetGr  
 5.161 -83.8 0.0  
 1

-----  
 Load 0 MVLN 22kV SBA1LOAD 0.0 196.6 600  
 0.000 0.0  
 Load 0 MVLN 22kV SBA2LOAD 0.0 196.6 600  
 0.000 0.0  
 ~~~~~  
 ~~~~~

=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem  
 (nodes: st2 Flg  
 =====  
 ohlCb 0 MWVEDENI 110kV _567_MAD 548.2 548.2 5000  
 MMAD 110kV SBA 2.878 -72.9  
 ohlCb 0 MWVEDENI 110kV _568_VST 472.6 548.2 3500  
 MSLU 110kV SBA1 2.481 -74.0  
 -----

-----  
 FaultNd F MVST 110kV SBB 1020.8 3500  
 0.0/121.0 elSn NetGr  
 5.358 -73.4 0.0  
 1  
 ~~~~~  
 ~~~~~

=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem  
 (nodes: st2 Flg  
 =====  
 ohlCb 0 MWVEDENI 110kV _556_PRT 469.2 469.2 3500  
 MPRT 110kV SBA 2.462 -72.4  
 -----

-----  
 FaultNd 0 MWVEDENI 110kV _556_PRT 469.2 3500  
 0.0/121.0 elSn NetGr  
 2.462 -72.4 0.0  
 1  
 ~~~~~  
 ~~~~~

=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem  
 (nodes: st2 Flg  
 =====  
 ohlCb 0 MWVEDENI 110kV 5576_OKC 857.1 857.1 5000

		02 3f zkraty - zapojení bez můstku					
		MOKC	110kv	SBB1	4.499	-78.3	
ohlcb	O	MWVEDENI	110kv	5578_PRT	184.1	857.1	3500
		MPRT	110kv	SBA	0.966	-78.3	
Trafo	O	MZDO	110kv	T101_cmp	0.0	1041.2	3500
		12 MZDO	22kv	SBA1	0.000	0.0	
-----							
FaultNd		O	MZDO	110kv	SBA1	1041.2	3500
0.0/121.0		eISn	NetGr				
					5.465	-78.3	0.0
1		~~~~~					
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk	SbLim
Vrem/Vfault			St1 Flg				
(nodes:				Busbar)	I"k	Phi	PhiVrem
	st2 Flg						
=====							
Trafo	O	MZDO	110kv	T101_cmp	208.6	208.6	600
		12 MZDO	110kv	SBA1	5.473	-86.0	
-----							
FaultNd		O	MZDO	22kv	SBA1	208.6	600
24.2		eISn	NetGr				0.0/
					5.473	-86.0	0.0
1		~~~~~					
Load		O	MZDO	22kv	SBA1LOAD	0.0	600
					0.000	0.0	
Load	O	MZDO	22kv	SBA2LOAD	0.0	208.6	600
					0.000	0.0	
~~~~~							
~~~~~							

**VYPOČTENÉ HODNOTY**

**ZKRATOVÉ POMĚRY PŘI JEDNOFÁZOVÉM  
ZKRATU PŘI ZAPOJENÍ BEZ MŮSTKU**

# 03 1f zkraty - zapojení bez můstku

```

=====
Short-Circuit 1-pole  Tue 03.05.11 10:59:10    Start: single    Name:05020906
Copenr:35
=====

```

## PROGRAM CHARACTERISTICS

```

-----
387 nodes                222 lines/cables
274 loads                13 busbar couplers
14 generators            205 transformers
38 injections/equiv.injections  0 equivalent branches
                               6 shunts

4 electrical sub-networks
36 limit violations

```

## PARAMETER

```

-----
Computation Mode      : all busbars, with contributions
Fault-Type           : 1-phase, L1 - Ground
Motor Consideration: yes
Computation Method    : Equivalent Voltage Source (IEC)
Voltage Factor C      : 1.1

```

## FLAGS

```

-----
column1/2
* = diagnosis indication (discrepancies/limit violations)

```

Calculated value

```

X undefined / no zero sequence data
i invalid
V limit violation

```

## Indicators for Network Membership

```

-----
O own
S subjacent own
B boundary
F foreign
R result NR
r to reduce

```

## Computation formulas for short-circuit calculation 1-pole

```

-----
Pre-fault Phase Voltage (Vfault):
- IEC-909      : 1.1*Vnominal/sqrt(3),
- Superposition : Vactual/sqrt(3)
Ik"1 (kA) phase 1 : Initial short-circuit current : Ik"1 =
3*vfault/(2*Z1kk+Z0kk)
Sk"1 (MVA)       : Initial short-circuit power      : Sk"1 =
sqrt(3)*Vnominal*Ik"1
Sbrk1 (MVA)      : Max.short-circuit break.power for CB
                  Sbrk1 = Max(Sk"1branch,Sk"1bus
                  -Sk"1branch)
SbLim (MVA)      : Circuit Breaker breaking power limit
IOLim (kA)       : Zero system current limit
Phi0             : Phase angle
Ir(Vr),Is(Vs),   : Initial short-circuit current and
It(Vt)           : bus voltage magnitude of phase R,S,T

```

```

=====
Type  Nm  Station  VL      Circuit      S"k          Sbrk1      3*I0
Stránka 1

```

## 03 1f zkraty - zapojení bez můstku

(PhiI0) (nodes: (V0/Vfault)	SbLim IOLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
ohlCb 0 3500	MWVEDENI	110kV	5507_BAR	1019.7 o	1186.7 o	5.65 o
10	MBHN	110kV	SBA1	5.35	0.15	0.15
ohlCb 0 3500	MWVEDENI	110kV	5508_BAR	1186.7 o	1186.7 o	5.93 o
10	MOK_D	110kV	SBA1	6.23	0.15	0.15
FaultNd 0 -82.6	MBAR elSn	110kV NetGr	SBA1	2206.3 o		11.58 o
69.9	1			0.0	68.4	70.3 22.6/
Load F 3500	MBAR	110kV	T101LOAD	0.0 o	2206.3 o	0.00 o
Load F 3500	MBAR	110kV	T102LOAD	0.00 0.0 o	0.00 2206.3 o	0.00 0.00 o
				0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station	VL	Circuit  Busbar)	S''k  Ir(Vr)	sbrk1  Is(Vs)	3*I0  It(Vt)
ohlCb 5000	0	MWVEDENI	110kv	5506_BHN	1651.8 o	1651.8 o	7.59 o
		MOKC	110kv	SBB1	8.67	0.55	0.55
ohlCb 3500	10 0	MWVEDENI	110kv	5507_BAR	579.6 o	1790.1 o	2.67 o
		MBAR	110kv	SBA1	3.04	0.18	0.18
Trafo 3500	0	MBHN	110kv	T101_cmp	69.4 o	2300.7 o	1.09 o
		MBHN	22kv	SBA	0.36	0.36	0.36
Trafo 3500	0	MBHN	110kv	T102_cmp	70.0 o	2300.3 o	1.10 o
		MBHN	22kv	SBB	0.37	0.37	0.37
FaultNd -83.4	0	MBHN elSn	110kv NetGr	SBA1	2369.7 o		12.44 o
69.9	1				0.0	67.4	68.9 20.9/

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	-------------	------------------	----	--------------------	---------------	-----------------	----------------

# 03 1f zkraty - zapojení bez můstku

=====							
=====							
Trafo	0	MBHN	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
600		MBHN	110kV	SBA1	0.00	0.00	0.00
0							
-----							
FaultNd	0	MBHN	22kV	SBA	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MBHN	22kV	SBALOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
~~~~~							
~~~~~							
=====							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	0	MBHN	110kV	T102_cmp	0.0 o	0.0 o	0.00 o
600		MBHN	110kV	SBA1	0.00	0.00	0.00
0							
-----							
FaultNd	0	MBHN	22kV	SBB	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MBHN	22kV	SBBLOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
~~~~~							
~~~~~							
=====							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
oh1Cb	0	MWVEDENI	110kV	_559_CHR	590.9 o	590.9 o	3.10 o
5000		MOKC	110kV	SBB1	3.10	0.00	0.00
10							
-----							
FaultNd	F	MCHR	110kV	SBA1	590.9 o		3.10 o
-75.1		eISn	NetGr		0.0	82.6	81.7 37.0/
69.9	1						
-----							
Load	F	MCHR	110kV	T102LOAD	0.0 o	590.9 o	0.00 o
3500					0.00	0.00	0.00

# 03 1f zkraty - zapojení bez můstku

Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlCb 5000	0	MWVEDENI	110kV	5518_FA_	952.5 o	952.5 o	5.00 o
		MOKC	110kV	SBB1	5.00	0.00	0.00
ohlCb 5000	10 0	MWVEDENI	110kV	5519_FA_	952.5 o	952.5 o	5.00 o
		MOKC	110kV	SBB1	5.00	0.00	0.00
FaultNd -82.1	0	MFA elSn	110kV NetGr	SBA1	1904.9 o		10.00 o
69.9	1				0.0	70.4	72.6 25.4/
Load 3500	F	MFA	110kV	T102LOAD	0.0 o	1904.9 o	0.00 o
					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo 600	0	MHO	110kV	T8_cmp	10.3 o	10.3 o	0.00 o
		MHO	110kV	SBA1	0.59	0.59	0.59
FaultNd -90.0	0	MHO elSn	10kV NetGr	SBA3	0.0 o		0.00 o
6.4	1				0.0	11.0	11.0 6.4/
Gen 600	F	MHO	10kV	GEN3cmp	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo 600	0	MHO	110kV	T10_cmp	10.3 o	10.3 o	0.00 o

		MHO	03 1f zkraty - zapojení bez můstku				
			110kV SBA1	0.59	0.59	0.59	
		0					
-----							
FaultNd	0	MHO	10kV	SBA4	0.0 o	0.00 o	
-90.0		eISn	NetGr				
					0.0	11.0	11.0 6.4/
6.4	1						
-----							
Gen	F	MHO	10kV	GEN.4cmp	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/vfault)		IOLim					
=====							
OhlCb	0	MWVEDENI	110kV	_533_HO_	376.2 o	1281.8 o	2.33 o
	3500						
	10	MTD	110kV	SB.A	1.97	0.17	0.20
OhlCb	0	MWVEDENI	110kV	_534_HO_	159.5 o	1497.6 o	0.60 o
	3500						
	10	MWVEDSBV	110kV	_534_A	0.84	0.12	0.12
OhlCb	0	MWVEDENI	110kV	_535_HO_	229.0 o	1429.0 o	0.68 o
	5000						
	10	MSO	110kV	SBA1	1.20	0.26	0.26
OhlCb	0	MWVEDENI	110kV	_536_HO_	234.4 o	1422.9 o	0.70 o
	5000						
	10	MSO	110kV	SBA1	1.23	0.27	0.27
Trafo	0	MHO	110kV	T10_cmp	298.4 o	1360.5 o	1.69 o
	3500						
	0	MHO	10kV	SBA4	1.57	0.08	0.09
Trafo	0	MHO	110kV	T13_cmp	67.3 o	1589.8 o	1.06 o
	2500						
	0	MHO	22kV	SBA	0.35	0.35	0.35
Trafo	0	MHO	110kV	T8_cmp	298.4 o	1360.5 o	1.69 o
	3500						
	0	MHO	10kV	SBA3	1.57	0.08	0.09
-----							
FaultNd	0	MHO	110kV	SBA1	1656.8 o		8.70 o
-81.7		eISn	NetGr				
					0.0	67.4	66.3 19.0/
69.9	1						
-----							
Load	0	MHO	110kV	T12LOAD	0.0 o	1656.8 o	0.00 o
	3500						
					0.00	0.00	0.00
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
=====							

## 03 1f zkraty - zapojení bez můstku

(PhiI0) (nodes: (V0/Vfault)	SbLim IOLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)	
ohlcb 0 3500	MWVEDENI	110kV	_541_HO_	303.4 o	564.8 o	1.60 o	
10	MKY	110kV	SBA1	1.59	0.02	0.01	
ohlcb 0 3500	MWVEDENI	110kV	_542_HO_	285.3 o	582.9 o	1.81 o	
10	MPNV	110kV	SBA1	1.50	0.16	0.16	
ohlcb 0 3500	MWVEDENI	110kV	_544_HO_	279.5 o	588.7 o	1.15 o	
10	MVLM	110kV	SBA7	1.47	0.16	0.16	
FaultNd 0 -77.6	MHO elSn	110kV NetGr	SBB1	868.2 o		4.56 o	
69.9	1			0.0	73.6	68.7	25.0/
~~~~~							
Type Nm Station VL Circuit S"k Sbrk1 3*I0 (PhiI0) SbLim (nodes: Busbar) Ir(Vr) Is(Vs) It(Vt) (V0/Vfault) IOLim							
Trafo 0 600	MHO	110kV	T13_cmp	0.0 o	0.0 o	0.00 o	
0	MHO	110kV	SBA1	0.00	0.00	0.00	
FaultNd 0 -90.0	MHO elSn	22kV NetGr	SBA	0.0 o		0.00 o	
14.0	1			0.0	24.2	24.2	14.0/
Load 0 600	MHO	22kV	SBALOAD	0.0 o	0.0 o	0.00 o	
				0.00	0.00	0.00	
~~~~~							
Type Nm Station VL Circuit S"k Sbrk1 3*I0 (PhiI0) SbLim (nodes: Busbar) Ir(Vr) Is(Vs) It(Vt) (V0/Vfault) IOLim							
ohlcb 0 5000	MWVEDENI	110kV	_550_HUN	936.0 o	936.0 o	3.96 o	
10	MOKC	110kV	SBB1	4.91	0.48	0.48	
Trafo 0 3500	MHUN	110kV	T102_cmp	92.2 o	936.0 o	1.45 o	
0	MHUN	22kV	SBA	0.48	0.48	0.48	

03 1f zkraty - zapojení bez můstku

```

-----
FaultNd 0 MHUN 110kV SBA1 1026.9 o 5.39 o
-76.8 eISn NetGr
0.0 75.2 71.6 27.7/
69.9 1
-----
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====
Trafo 0 MHUN 110kV T102_cmp 0.0 o 0.0 o 0.00 o
600
0 MHUN 110kV SBA1 0.00 0.00 0.00
0

```

```

FaultNd 0 MHUN 22kV SBA 0.0 o 0.00 o
-90.0 eISn NetGr
0.0 24.2 24.2 14.0/
14.0 1

```

```

Load 0 MHUN 22kV SBALOAD 0.0 o 0.0 o 0.00 o
600
Load 0 MHUN 22kV SBBLOAD 0.00 0.00 0.00
600 0.0 o 0.0 o 0.00 o
0.00 0.00 0.00

~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====
OhlCb 0 MWVEDENI 110kV 5594_KNC 387.7 o 387.7 o 1.51 o
3500
MPRT 110kV SBA 2.03 0.27 0.27
Trafo 10 MKNC 110kV T102_cmp 50.8 o 387.7 o 0.80 o
3500
0 MKNC 22kV SBA1 0.27 0.27 0.27
0
-----

```

```

-----
FaultNd 0 MKNC 110kV SBA1 438.1 o 2.30 o
-76.7 eISn NetGr
0.0 73.7 67.6 24.4/
69.9 1
-----
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====

```

03 1f zkratý - zapojení bez mŭstku

Trafo	0	MKNC	110kV	T102_cmp	0.0 o	0.0 o	0.00 o
600		MKNC	110kV	SBA1	0.00	0.00	0.00
0							
-----							
FaultNd	0	MKNC	22kV	SBA1	0.0 o		0.00 o
-90.0		elSn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MKNC	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
600							
Load	0	MKNC	22kV	SBA2LOAD	0.00	0.00	0.00
600					0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
OhlCb	0	MWVEDENI	110kV	_546_KUN	524.0 o	524.0 o	1.72 o
5000		MOKC	110kV	SBA1	2.75	0.52	0.52
10							
OhlCb	0	MWVEDENI	110kV	5540_KUN	223.4 o	621.7 o	1.18 o
3500		MNA_D	110kV	SBA1	1.17	0.02	0.01
10							
Trafo	F	MKUN	110kV	T101_cmp	98.3 o	747.2 o	1.55 o
3500		MKUN	22kV	SBB1	0.52	0.52	0.52
0							
-----							
FaultNd	0	MKUN	110kV	SBA1	844.9 o		4.43 o
-78.9		elSn	NetGr		0.0	76.0	71.3 28.0/
69.9	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	F	MKUN	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
600		MKUN	110kV	SBA1	0.00	0.00	0.00
0							
-----							
FaultNd	0	MKUN	22kV	SBB1	0.0 o		0.00 o
-90.0		elSn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

## 03 1f zkraty - zapojení bez můstku

Load	0 600	MKUN	22kV	SBB1LOAD	0.0 o	0.0 o	0.00 o
Load	0 600	MKUN	22kV	SBB2LOAD	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
					0.00	0.00	0.00
~~~~~							
~~~~~							
=====							
Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
ohlCb	0 3500	MWVEDENI	110kV	_541_HO_	331.5 o	545.3 o	1.26 o
	10	MHO	110kV	SBB1	1.74	0.25	0.25
ohlCb	0 5000	MWVEDENI	110kV	_545_KY_	378.1 o	498.5 o	0.94 o
	10	MOKC	110kV	SBA1	1.98	0.53	0.52
Trafo	0 3500	MKY	110kV	T101_cmp	93.1 o	784.0 o	1.24 o
	0	MKY	22kV	SBA1	0.49	0.38	0.38
Trafo	0 3500	MKY	110kV	T102_cmp	74.8 o	802.1 o	1.18 o
	0	MKY	22kV	SBB1	0.39	0.39	0.39
-----							
FaultNd	0	MKY	110kV	SBA1	876.6 o		4.60 o
-78.1		eISn	NetGr		0.0	72.3	65.7 22.2/
69.9	1						
~~~~~							
~~~~~							
=====							
Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
ohlCb	0 600	MKY	22kV	V352	1.3 o	1.3 o	0.00 o
	0	MKY	22kV	SBA1	0.03	0.03	0.03
ohlCb	0 600	MKY	22kV	V353	1.3 o	1.3 o	0.00 o
	0	MKY	22kV	SBA1	0.03	0.03	0.03
Trafo	0 800	MKY	22kV	BAT01cmp	2.6 o	2.6 o	0.00 o
	0	MKY	6kV	SBV.T01	0.07	0.07	0.07
-----							
FaultNd	0	MKY	22kV	SBA	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/

## 03 1f zkraty - zapojení bez můstku

14.0 1

~~~~~  
~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlcb	0 600	MKY	22kV	V352	1.3 o	1.3 o	0.00 o
		MKY	22kV	SBA	0.03	0.03	0.03
ohlcb	0 600	MKY	22kV	V353	1.3 o	1.3 o	0.00 o
		MKY	22kV	SBA	0.03	0.03	0.03
Trafo	0 600	MKY	110kV	T101_cmp	2.6 o	2.6 o	0.00 o
		MKY	110kV	SBA1	0.07	0.07	0.07

FaultNd	0	MKY	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/

14.0 1

Load	0 600	MKY	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00
Load	0 600	MKY	22kV	SBA2LOAD	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00

~~~~~  
~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlcb	0 600	MKY	22kV	V19	0.0 o	0.0 o	0.00 o
		MKY	22kV	SBB1	0.00	0.00	0.00
	0						
FaultNd	0	MKY	22kV	SBB	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/

14.0 1

~~~~~  
~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

03 1f zkraty - zapojení bez můstku

OhlCb	0	MKY	22kv	V19	0.0 o	0.0 o	0.00 o
	600						
		MKY	22kv	SBB	0.00	0.00	0.00
	0						
Trafo	0	MKY	110kv	T102_cmp	0.0 o	0.0 o	0.00 o
	600						
		MKY	110kv	SBA1	0.00	0.00	0.00
	0						
-----							
FaultNd	0	MKY	22kv	SBB1	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MKY	22kv	SBB1LOAD	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00
Load	0	MKY	22kv	SBB2LOAD	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00

~~~~~  
~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
Trafo	0	MKY	6kv	B1T01cmp	0.0 o	0.0 o	0.00 o
	600						
		MKY	6kv	SBV.T01	0.00	0.00	0.00
	0						
-----							
FaultNd	0	MKY	6kv	B1T01cmp	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	6.9	6.9 4.0/
4.0	1						
~~~~~							

Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
Trafo	0	MKY	22kv	BAT01cmp	2.7 o	2.7 o	0.00 o
	600						
		MKY	22kv	SBA	0.25	0.25	0.25
	0						
Trafo	0	MKY	6kv	B1T01cmp	0.0 o	0.0 o	0.00 o
	600						
		MKY	6kv	B1T01cmp	0.00	0.00	0.00
	0						
Trafo	0	MKY	6kv	B3T01cmp	2.7 o	2.7 o	0.00 o
	600						
		MKY	6kv	SBV.TG3	0.25	0.25	0.25
	0						
-----							

```

03 1f zkraty - zapojení bez můstku
FaultNd o MKY 6kV SBV.T01 0.0 o 0.00 o
-90.0 eISn NetGr
4.0 1 0.0 6.9 6.9 4.0/
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(v0/vfault) IOLim
=====

```

```

Trafo 0 MKY 6kV B3T01cmp 2.7 o 2.7 o 0.00 o
600
0 MKY 6kV SBV.T01 0.25 0.25 0.25
-----

```

```

FaultNd o MKY 6kV SBV.TG3 0.0 o 0.00 o
-90.0 eISn NetGr
4.0 1 0.0 6.9 6.9 4.0/
-----

```

```

Gen F MKY 6kV GEN.3cmp 0.0 o 0.0 o 0.00 o
600
0.00 0.00 0.00
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(v0/vfault) IOLim
=====

```

```

ohlCb 0 MWVEDENI 110kV 5572_MAD 112.5 o 2343.2 o 1.13 o
3500
15 MSVI 110kV SBV.T115 0.59 0.27 0.27
ohlCb 0 MWVEDENI 110kV 5573_MAD 71.6 o 2383.9 o 0.72 o
3500
15 MSVI 110kV SBV.T114 0.38 0.17 0.17
ohlCb 0 MWVEDENI 110kV 5574_MAD 43.3 o 2412.1 o 0.68 o
3500
10 MSLU 110kV SBA1 0.23 0.23 0.23
ohlCb 0 MWVEDENI 110kV 5501_MAD 528.4 o 1927.1 o 2.14 o
5000
10 MOKC 110kV SBB1 2.77 0.32 0.32
ohlCb 0 MWVEDENI 110kV 5502_MAD 528.4 o 1927.1 o 2.14 o
5000
10 MOKC 110kV SBB1 2.77 0.32 0.32
ohlCb 0 MWVEDENI 110kV 5503_MAD 546.3 o 1909.0 o 2.21 o
5000
10 MOKC 110kV SBB1 2.87 0.33 0.33
ohlCb 0 MWVEDENI 110kV _567_MAD 11.6 o 2443.6 o 0.18 o
3500
10 MVST 110kV SBB 0.06 0.06 0.06

```

03 1f zkraty - zapojení bez můstku							
ohlCb	0	MWVEDENI	110kV	5509_MAD	509.5 o	1945.8 o	2.05 o
5000		MMLE	110kV	SBA1	2.67	0.31	0.31
10		MMAD	110kV	T101_cmp	40.5 o	2415.0 o	0.64 o
Trafo	0	MMAD	22kV	SBA	0.21	0.21	0.21
2500		MMAD	110kV	T102_cmp	64.6 o	2390.9 o	1.02 o
0		MMAD	22kV	SBB3	0.34	0.34	0.34
Trafo	0						
2500							
0							
-----							
FaultNd	0	MMAD	110kV	SBA	2455.3 o		12.89 o
-83.6		eISn	NetGr				
					0.0	66.9	67.5 19.4/
69.9	1						
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	0	MMAD	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
600		MMAD	110kV	SBA	0.00	0.00	0.00
0							
-----							
FaultNd	0	MMAD	22kV	SBA	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MMAD	22kV	SBALOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	0	MMAD	110kV	T102_cmp	0.0 o	0.0 o	0.00 o
600		MMAD	110kV	SBA	0.00	0.00	0.00
0							
-----							
FaultNd	0	MMAD	22kV	SBB3	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MMAD	22kV	SBB1LOAD	0.0 o	0.0 o	0.00 o
600							

03 1f zkraty - zapojení bez můstku

Load	O	MMAD	22kV	SBB2LOAD	0.00	0.00	0.00
600					0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00

~~~~~

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station | VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|

|       |    |          |       |          |          |          |        |
|-------|----|----------|-------|----------|----------|----------|--------|
| ohlCb | O  | MWVEDENI | 110kV | 5504_MLE | 1955.1 o | 1955.1 o | 9.75 o |
| 3500  |    |          |       |          |          |          |        |
|       | 10 | MOKC     | 110kV | SBB1     | 10.26    | 0.26     | 0.26   |
| ohlCb | O  | MWVEDENI | 110kV | 5509_MAD | 467.0 o  | 1955.1 o | 2.95 o |
| 3500  |    |          |       |          |          |          |        |
|       | 10 | MMAD     | 110kV | SBA      | 2.45     | 0.26     | 0.26   |

|         |   |      |       |      |          |      |            |
|---------|---|------|-------|------|----------|------|------------|
| FaultNd | O | MMLE | 110kV | SBA1 | 2421.1 o |      | 12.71 o    |
| -84.0   |   | eISn | NetGr |      |          |      |            |
|         | 1 |      |       |      | 0.0      | 67.4 | 69.3 21.2/ |

|      |   |      |       |          |       |          |        |
|------|---|------|-------|----------|-------|----------|--------|
| Load | F | MMLE | 110kV | T101LOAD | 0.0 o | 2421.1 o | 0.00 o |
| 3500 |   |      |       |          | 0.00  | 0.00     | 0.00   |

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station | VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|

|       |    |          |       |          |         |         |        |
|-------|----|----------|-------|----------|---------|---------|--------|
| ohlCb | O  | MWVEDENI | 110kV | _547_NAD | 253.5 o | 504.7 o | 1.41 o |
| 3500  |    |          |       |          |         |         |        |
|       | 10 | MPNV     | 110kV | SBA1     | 1.33    | 0.04    | 0.04   |
| ohlCb | O  | MWVEDENI | 110kV | 5540_KUN | 504.7 o | 504.7 o | 2.57 o |
| 3500  |    |          |       |          |         |         |        |
|       | 10 | MKUN     | 110kV | SBA1     | 2.65    | 0.04    | 0.04   |

|         |   |       |       |      |         |      |            |
|---------|---|-------|-------|------|---------|------|------------|
| FaultNd | O | MNA_D | 110kV | SBA1 | 758.0 o |      | 3.98 o     |
| -78.0   |   | eISn  | NetGr |      |         |      |            |
|         | 1 |       |       |      | 0.0     | 76.5 | 72.5 29.0/ |

|      |   |       |       |          |       |         |        |
|------|---|-------|-------|----------|-------|---------|--------|
| Load | F | MNA_D | 110kV | T102LOAD | 0.0 o | 758.0 o | 0.00 o |
| 3500 |   |       |       |          |       |         |        |
|      |   |       |       |          | 0.00  | 0.00    | 0.00   |
| Load | F | MNA_D | 110kV | T1LOAD   | 0.0 o | 758.0 o | 0.00 o |
| 3500 |   |       |       |          | 0.00  | 0.00    | 0.00   |

## 03 1f zkraty - zapojení bez můstku

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault)  | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim            | VL                               | Circuit<br>Busbar)                  | S"k<br>Ir(Vr)                      | Sbrk1<br>Is(Vs)                    | 3*I0<br>It(Vt)                   |
|--------------------------------------------|----------------------|--------------------------------------|----------------------------------|-------------------------------------|------------------------------------|------------------------------------|----------------------------------|
| ohlCb<br>3500<br>10<br>ohlCb<br>3500<br>10 | 0<br>0<br>0<br>0     | MWVEDENI<br>MOKC<br>MWVEDENI<br>MPRT | 110kV<br>110kV<br>110kV<br>110kV | 5575_NZD<br>SBB1<br>5577_NZD<br>SBA | 425.0 o<br>2.23<br>280.6 o<br>1.47 | 425.0 o<br>0.26<br>425.0 o<br>0.26 | 1.72 o<br>0.26<br>1.98 o<br>0.26 |
| FaultNd<br>-77.9<br>69.9                   | 0<br>1               | MNZ_D<br>elSn                        | 110kV<br>NetGr                   | SBA1                                | 705.6 o<br>0.0                     | 74.9                               | 3.70 o<br>73.3 28.5/             |
| Load<br>3500                               | F<br>3500            | MNZ_D                                | 110kV                            | T101LOAD                            | 0.0 o<br>0.00<br>0.0 o<br>0.00     | 705.6 o<br>0.00<br>705.6 o<br>0.00 | 0.00 o<br>0.00<br>0.00 o<br>0.00 |
| Load<br>3500                               | F<br>3500            | MNZ_D                                | 110kV                            | T111LOAD                            | 0.00<br>0.0 o<br>0.00              | 0.00<br>705.6 o<br>0.00            | 0.00<br>0.00 o<br>0.00           |
| ~~~~~                                      |                      |                                      |                                  |                                     |                                    |                                    |                                  |
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault)  | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim            | VL                               | Circuit<br>Busbar)                  | S"k<br>Ir(Vr)                      | Sbrk1<br>Is(Vs)                    | 3*I0<br>It(Vt)                   |
| Trafo<br>600<br>0                          | F<br>600<br>0        | MOKC<br>MOKC                         | 10kV<br>110kV                    | T401_cmp<br>SBV.T401                | 0.0 o<br>0.00                      | 0.0 o<br>0.00                      | 0.00 o<br>0.00                   |
| FaultNd<br>-90.0<br>6.4                    | 0<br>1               | MOKC<br>elSn                         | 10kV<br>NetGr                    | SBT401                              | 0.0 o<br>0.0                       | 11.0                               | 0.00 o<br>11.0 6.4/              |
| Load<br>600                                | 0<br>600             | MOKC                                 | 10kV                             | SBT401LO                            | 0.0 o<br>0.00                      | 0.0 o<br>0.00                      | 0.00 o<br>0.00                   |
| ~~~~~                                      |                      |                                      |                                  |                                     |                                    |                                    |                                  |
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault)  | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim            | VL                               | Circuit<br>Busbar)                  | S"k<br>Ir(Vr)                      | Sbrk1<br>Is(Vs)                    | 3*I0<br>It(Vt)                   |
| Trafo                                      | F                    | MOKC                                 | 10kV                             | T402_cmp                            | 0.0 o                              | 0.0 o                              | 0.00 o                           |

| 03 1f zkraty - zapojení bez můstku |    |          |       |          |          |          |           |
|------------------------------------|----|----------|-------|----------|----------|----------|-----------|
| 600                                |    | MOKC     | 110kV | SBV.T402 | 0.00     | 0.00     | 0.00      |
| 0                                  |    |          |       |          |          |          |           |
| -----                              |    |          |       |          |          |          |           |
| FaultNd                            | 0  | MOKC     | 10kV  | SBT402   | 0.0 o    |          | 0.00 o    |
| -90.0                              |    | eISn     | NetGr |          | 0.0      | 11.0     | 11.0 6.4/ |
| 6.4                                | 1  |          |       |          |          |          |           |
| -----                              |    |          |       |          |          |          |           |
| Load                               | 0  | MOKC     | 10kV  | SBT402LO | 0.0 o    | 0.0 o    | 0.00 o    |
| 600                                |    |          |       |          | 0.00     | 0.00     | 0.00      |
| ~~~~~                              |    |          |       |          |          |          |           |
| ~~~~~                              |    |          |       |          |          |          |           |
| Type                               | Nm | Station  | VL    | Circuit  | S"k      | Sbrk1    | 3*I0      |
| (PhiI0)                            |    | SbLim    |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt)    |
| (nodes:                            |    |          |       |          |          |          |           |
| (V0/Vfault)                        |    | IOLim    |       |          |          |          |           |
| =====                              |    |          |       |          |          |          |           |
| Trafo                              | F  | MOKC     | 10kV  | T403_cmp | 0.0 o    | 0.0 o    | 0.00 o    |
| 600                                |    |          |       |          |          |          |           |
| 0                                  |    | MOKC     | 110kV | SBV.T403 | 0.00     | 0.00     | 0.00      |
| -----                              |    |          |       |          |          |          |           |
| FaultNd                            | F  | MOKC     | 10kV  | T403_cmp | 0.0 o    |          | 0.00 o    |
| -90.0                              |    | eISn     | NetGr |          | 0.0      | 11.0     | 11.0 6.4/ |
| 6.4                                | 1  |          |       |          |          |          |           |
| ~~~~~                              |    |          |       |          |          |          |           |
| ~~~~~                              |    |          |       |          |          |          |           |
| Type                               | Nm | Station  | VL    | Circuit  | S"k      | Sbrk1    | 3*I0      |
| (PhiI0)                            |    | SbLim    |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt)    |
| (nodes:                            |    |          |       |          |          |          |           |
| (V0/Vfault)                        |    | IOLim    |       |          |          |          |           |
| =====                              |    |          |       |          |          |          |           |
| ohlcb                              | 0  | MWVEDENI | 110kV | 5570_OKC | 121.1 o  | 1748.5 o | 1.89 o    |
| 3500                               |    |          |       |          |          |          |           |
|                                    | 10 | MUBR     | 110kV | SBB      | 0.64     | 0.63     | 0.63      |
| ohlcb                              | 0  | MWVEDENI | 110kV | 5571_OKC | 121.1 o  | 1748.5 o | 1.89 o    |
| 3500                               |    |          |       |          |          |          |           |
|                                    | 10 | MUBR     | 110kV | SBB      | 0.64     | 0.63     | 0.63      |
| ohlcb                              | 0  | MWVEDENI | 110kV | _545_KY_ | 99.0 o   | 1770.7 o | 1.49 o    |
| 3500                               |    |          |       |          |          |          |           |
|                                    | 10 | MKY      | 110kV | SBA1     | 0.52     | 0.48     | 0.48      |
| ohlcb                              | 0  | MWVEDENI | 110kV | _546_KUN | 107.4 o  | 1762.2 o | 1.67 o    |
| 3500                               |    |          |       |          |          |          |           |
|                                    | 10 | MKUN     | 110kV | SBA1     | 0.56     | 0.55     | 0.55      |
| Trafo                              | F  | MOKC     | 110kV | T402_cmp | 1421.4 o | 1421.4 o | 2.89 o    |
| 3500                               |    |          |       |          |          |          |           |
| 0                                  |    | MOKC     | 110kV | SBV.T402 | 7.46     | 2.29     | 2.29      |
| -----                              |    |          |       |          |          |          |           |
| FaultNd                            | 0  | MOKC     | 110kV | SBA1     | 1869.5 o |          | 9.81 o    |

03 1f zkraty - zapojení bez můstku  
-84.9 eISn NetGr 0.0 82.8 84.1 38.3/  
69.9 1  
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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station  | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|----------|-------|--------------------|---------------|-----------------|----------------|
| oh1Cb<br>5000                             | 0                    | MWVEDENI | 110kV | 5575_NZD           | 31.2 o        | 2830.2 o        | 0.49 o         |
|                                           | 10                   | MNZ_D    | 110kV | SBA1               | 0.16          | 0.16            | 0.16           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5576_OKC           | 50.0 o        | 2811.4 o        | 0.79 o         |
|                                           | 10                   | MZDO     | 110kV | SBA1               | 0.26          | 0.26            | 0.26           |
| oh1Cb<br>5000                             | 0                    | MWVEDENI | 110kV | 5501_MAD           | 73.5 o        | 2788.0 o        | 0.89 o         |
|                                           | 10                   | MMAD     | 110kV | SBA                | 0.39          | 0.25            | 0.25           |
| oh1Cb<br>5000                             | 0                    | MWVEDENI | 110kV | 5502_MAD           | 73.5 o        | 2788.0 o        | 0.89 o         |
|                                           | 10                   | MMAD     | 110kV | SBA                | 0.39          | 0.25            | 0.25           |
| oh1Cb<br>5000                             | 0                    | MWVEDENI | 110kV | 5503_MAD           | 75.8 o        | 2785.7 o        | 0.92 o         |
|                                           | 10                   | MMAD     | 110kV | SBA                | 0.40          | 0.26            | 0.26           |
| oh1Cb<br>5000                             | 0                    | MWVEDENI | 110kV | 5504_MLE           | 70.6 o        | 2791.0 o        | 0.85 o         |
|                                           | 10                   | MMLE     | 110kV | SBA1               | 0.37          | 0.24            | 0.24           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5505_OKC           | 29.6 o        | 2831.9 o        | 0.47 o         |
|                                           | 10                   | MOK_D    | 110kV | SBA1               | 0.16          | 0.16            | 0.16           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | _550_HUN           | 46.7 o        | 2814.7 o        | 0.74 o         |
|                                           | 10                   | MHUN     | 110kV | SBA1               | 0.25          | 0.25            | 0.25           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5506_BHN           | 84.1 o        | 2777.6 o        | 1.32 o         |
|                                           | 10                   | MBHN     | 110kV | SBA1               | 0.44          | 0.44            | 0.44           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | _559_CHR           | 0.1 o         | 2861.5 o        | 0.00 o         |
|                                           | 10                   | MCHR     | 110kV | SBA1               | 0.00          | 0.00            | 0.00           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | _573_OKC           | 26.6 o        | 2834.9 o        | 0.42 o         |
|                                           | 10                   | MRYC     | 110kV | SBA1               | 0.14          | 0.14            | 0.14           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5516_OKC           | 136.9 o       | 2725.7 o        | 2.16 o         |
|                                           | 10                   | MUHD     | 110kV | SBA1               | 0.72          | 0.72            | 0.72           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5517_OKC           | 136.9 o       | 2725.7 o        | 2.16 o         |
|                                           | 10                   | MUHD     | 110kV | SBA1               | 0.72          | 0.72            | 0.72           |
| oh1Cb<br>3500                             | 0                    | MWVEDENI | 110kV | 5518_FA_           | 0.0 o         | 2861.5 o        | 0.00 o         |
|                                           | 10                   | MFA      | 110kV | SBA1               | 0.00          | 0.00            | 0.00           |

03 1f zkraty - zapojení bez můstku

|         |         |          |       |          |          |          |            |
|---------|---------|----------|-------|----------|----------|----------|------------|
| ohlCb   | 10<br>0 | MWVEDENI | 110kV | 5519_FA_ | 0.0 o    | 2861.5 o | 0.00 o     |
|         | 3500    | MFA      | 110kV | SBA1     | 0.00     | 0.00     | 0.00       |
| Trafo   | 10<br>F | MOKC     | 110kV | T401_cmp | 2029.0 o | 2029.0 o | 2.99 o     |
|         | 3500    | MOKC     | 110kV | SBV.T401 | 10.65    | 3.84     | 3.83       |
|         | 0       |          |       |          |          |          |            |
| -----   |         |          |       |          |          |          |            |
| FaultNd | 0       | MOKC     | 110kV | SBB1     | 2861.4 o |          | 15.02 o    |
| -85.6   |         | eISn     | NetGr |          | 0.0      | 65.5     | 67.3 18.2/ |
| 69.9    | 1       |          |       |          |          |          |            |

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| Type        | Nm   | Station | VL    | Circuit  | S"k      | Sbrk1    | 3*I0    |
|-------------|------|---------|-------|----------|----------|----------|---------|
| (PhiI0)     |      | SbLim   |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt)  |
| (nodes:     |      |         |       |          |          |          |         |
| (V0/Vfault) |      | IOLim   |       |          |          |          |         |
| =====       |      |         |       |          |          |          |         |
| Trafo       | F    | MOKC    | 400KV | T401_cmp | 1388.3 o | 1683.8 o | 6.95 o  |
|             | 3500 | MOKC    | 400KV | SBA      | 7.29     | 7.10     | 7.09    |
|             | 0    |         |       |          |          |          |         |
| Trafo       | F    | MOKC    | 10kV  | T401_cmp | 0.0 o    | 3069.6 o | 0.00 o  |
|             | 5000 | MOKC    | 10kV  | SBT401   | 0.00     | 0.00     | 0.00    |
|             | 0    |         |       |          |          |          |         |
| Trafo       | F    | MOKC    | 110kV | T401_cmp | 1683.9 o | 1683.9 o | 23.03 o |
|             | 3500 | MOKC    | 110kV | SBB1     | 8.84     | 7.10     | 7.09    |
|             | 0    |         |       |          |          |          |         |

|         |   |      |       |          |          |       |             |
|---------|---|------|-------|----------|----------|-------|-------------|
| FaultNd | 0 | MOKC | 110kV | SBV.T401 | 3069.6 o |       | 16.11 o     |
| -80.7   |   | eISn | NetGr |          | 0.0      | 113.6 | 141.3 75.4/ |
| 69.9    | 1 |      |       |          |          |       |             |

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| Type        | Nm   | Station | VL    | Circuit  | S"k     | Sbrk1    | 3*I0   |
|-------------|------|---------|-------|----------|---------|----------|--------|
| (PhiI0)     |      | SbLim   |       | Busbar)  | Ir(Vr)  | Is(Vs)   | It(Vt) |
| (nodes:     |      |         |       |          |         |          |        |
| (V0/Vfault) |      | IOLim   |       |          |         |          |        |
| =====       |      |         |       |          |         |          |        |
| Trafo       | F    | MOKC    | 400KV | T402_cmp | 828.0 o | 828.0 o  | 0.29 o |
|             | 3500 | MOKC    | 400KV | SBB      | 4.35    | 2.18     | 2.17   |
|             | 0    |         |       |          |         |          |        |
| Trafo       | F    | MOKC    | 10kV  | T402_cmp | 0.0 o   | 1274.7 o | 0.00 o |
|             | 5000 | MOKC    | 10kV  | SBT402   | 0.00    | 0.00     | 0.00   |
|             | 0    |         |       |          |         |          |        |
| Trafo       | F    | MOKC    | 110kV | T402_cmp | 447.3 o | 828.0 o  | 6.70 o |
|             | 5000 | MOKC    | 110kV | SBA1     | 2.35    | 2.18     | 2.17   |
|             | 0    |         |       |          |         |          |        |

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03 1f zkraty - zapojení bez můstku
FaultNd o MOKC 110kV SBV.T402 1274.7 o 6.69 o
-84.4 eISn NetGr
0.0 52.5 68.5 5.4/
69.9 1
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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|-------|--------------------|---------------|-----------------|----------------|
| Trafo                                     | F                    | MOKC    | 400kV | T403_cmp           | 497.5 o       | 497.5 o         | 2.61 o         |
| 3500                                      |                      | MOKC    | 400kV | SBA                | 2.61          | 0.00            | 0.00           |
| 0                                         |                      |         |       |                    |               |                 |                |
| Trafo                                     | F                    | MOKC    | 10kV  | T403_cmp           | 0.0 o         | 497.5 o         | 0.00 o         |
| 5000                                      |                      | MOKC    | 10kV  | T403_cmp           | 0.00          | 0.00            | 0.00           |
| 0                                         |                      |         |       |                    |               |                 |                |
| Trafo                                     | F                    | MOKC    | 110kV | T403_cmp           | 0.0 o         | 497.5 o         | 0.00 o         |
| 5000                                      |                      | MOKC    | 110kV | T403_cmp           | 0.00          | 0.00            | 0.00           |
| 0                                         |                      |         |       |                    |               |                 |                |

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FaultNd o MOKC 110kV SBV.T403 497.5 o 2.61 o
-89.3 eISn NetGr
0.0 90.1 89.6 44.3/
69.9 1
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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|-------|--------------------|---------------|-----------------|----------------|
| Trafo                                     | F                    | MOKC    | 110kV | T403_cmp           | 837.4 o       | 837.4 o         | 4.40 o         |
| 5000                                      |                      | MOKC    | 110kV | SBV.T403           | 4.40          | 0.00            | 0.00           |
| 0                                         |                      |         |       |                    |               |                 |                |

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FaultNd F MOKC 110kV T403_cmp 837.4 o 4.40 o
-88.8 eISn NetGr
0.0 102.1 101.0 54.4/
69.9 1
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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station  | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|----------|-------|--------------------|---------------|-----------------|----------------|
| ohTcb                                     | F                    | MWVEDENI | 400kV | 417_OKC            | 2518.0 OX     | 2758.2 OX       | 3.81 OX        |
| 30000                                     |                      | MSO      | 400KV | SBV.KP2            | 3.63          | 0.16            | 0.13           |
| 0                                         |                      |          |       |                    |               |                 |                |

|       |   |      |       |                                    |          |          |        |
|-------|---|------|-------|------------------------------------|----------|----------|--------|
|       |   |      |       | 03 1f zkraty - zapojení bez můstku |          |          |        |
| BBC   | F | MOKC | 400KV | KP1cmp                             | 2018.1 o | 3259.4 o | 0.00 o |
| 25000 |   |      |       |                                    |          |          |        |
|       | 0 | MOKC | 400KV | SBB                                | 2.91     | 1.05     | 1.05   |
| Trafo | F | MOKC | 400KV | T401_cmp                           | 709.2 o  | 4559.8 o | 2.97 o |
| 25000 |   |      |       |                                    |          |          |        |
|       | 0 | MOKC | 110kv | SBV.T401                           | 1.02     | 0.97     | 0.97   |
| Trafo | F | MOKC | 400KV | T403_cmp                           | 0.8 o    | 5269.5 o | 0.00 o |
| 25000 |   |      |       |                                    |          |          |        |
|       | 0 | MOKC | 110kv | SBV.T403                           | 0.00     | 0.00     | 0.00   |

|             |   |      |       |     |          |       |        |
|-------------|---|------|-------|-----|----------|-------|--------|
| FaultNd     | F | MOKC | 400KV | SBA | 5268.9 o |       | 7.61 o |
| -84.4       |   | eISn | NetGr |     |          |       |        |
|             |   |      |       |     | 0.0      | 357.8 | 342.4  |
| 181.6/254.0 |   | 1    |       |     |          |       |        |

| Type        | Nm | Station | VL    | Circuit  | S"k      | sbrk1    | 3*I0   |
|-------------|----|---------|-------|----------|----------|----------|--------|
| (PhiI0)     |    | SbLim   |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt) |
| (nodes:     |    |         |       |          |          |          |        |
| (v0/vfault) |    | IOLim   |       |          |          |          |        |
| BBC         | F  | MOKC    | 400KV | KP1cmp   | 3259.4 o | 3259.4 o | 0.00 o |
| 25000       |    |         |       |          |          |          |        |
|             | 0  | MOKC    | 400KV | SBA      | 4.70     | 1.05     | 1.05   |
| Trafo       | F  | MOKC    | 400KV | T402_cmp | 193.8 o  | 5075.1 o | 0.82 o |
| 25000       |    |         |       |          |          |          |        |
|             | 0  | MOKC    | 110kv | SBV.T402 | 0.28     | 0.27     | 0.27   |

|             |   |      |       |     |          |       |        |
|-------------|---|------|-------|-----|----------|-------|--------|
| E FaultNd   | F | MOKC | 400KV | SBB | 5268.9 o |       | 7.61 o |
| -84.4       |   | eISn | NetGr |     |          |       |        |
|             |   |      |       |     | 0.0      | 357.8 | 342.4  |
| 181.6/254.0 |   | 1    |       |     |          |       |        |

|       |   |      |       |          |          |          |        |
|-------|---|------|-------|----------|----------|----------|--------|
| Inj   | F | MOKC | 400KV | INJ.V418 | 1825.0 o | 3453.1 o | 0.00 o |
| 20000 |   |      |       |          |          |          |        |
|       |   |      |       |          | 2.63     | 1.32     | 1.32   |

| Type        | Nm | Station  | VL    | Circuit  | S"k      | sbrk1    | 3*I0   |
|-------------|----|----------|-------|----------|----------|----------|--------|
| (PhiI0)     |    | SbLim    |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt) |
| (nodes:     |    |          |       |          |          |          |        |
| (v0/vfault) |    | IOLim    |       |          |          |          |        |
| ohlcb       | 0  | MWVEDENI | 110kv | 5505_OKC | 1515.2 o | 1515.2 o | 7.64 o |
| 5000        |    |          |       |          |          |          |        |
|             | 10 | MOKC     | 110kv | SBB1     | 7.95     | 0.16     | 0.16   |
| ohlcb       | 0  | MWVEDENI | 110kv | 5508_BAR | 747.2 o  | 1515.2 o | 4.23 o |
| 3500        |    |          |       |          |          |          |        |
|             | 10 | MBAR     | 110kv | SBA1     | 3.92     | 0.16     | 0.16   |

|         |   |       |                                    |       |      |          |         |
|---------|---|-------|------------------------------------|-------|------|----------|---------|
| FaultNd | 0 | MOK_D | 03 1f zkraty - zapojení bez můstku | 110kV | SBA1 | 2262.4 o | 11.87 o |
| -82.9   |   | eISn  | NetGr                              |       |      | 0.0      | 68.2    |
| 69.9    | 1 |       |                                    |       |      | 70.2     | 22.3/   |

|      |   |       |       |          |       |          |        |
|------|---|-------|-------|----------|-------|----------|--------|
| Load | F | MOK_D | 110kV | T101LOAD | 0.0 o | 2262.4 o | 0.00 o |
| 3500 |   |       |       |          | 0.00  | 0.00     | 0.00   |

| Type        | Nm    | Station | VL | Circuit | S"k    | Sbrk1  | 3*I0   |
|-------------|-------|---------|----|---------|--------|--------|--------|
| (PhiI0)     |       | SbLim   |    | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes:     |       |         |    |         |        |        |        |
| (V0/vfault) | IOLim |         |    |         |        |        |        |

|       |   |          |       |          |         |         |        |
|-------|---|----------|-------|----------|---------|---------|--------|
| ohlCb | 0 | MWVEDENI | 110kV | _542_HO_ | 460.0 o | 460.0 o | 1.91 o |
| 3500  |   | MHO      | 110kV | SBB1     | 2.41    | 0.25    | 0.25   |
| 10    |   |          |       |          |         |         |        |
| ohlCb | 0 | MWVEDENI | 110kV | _547_NAD | 263.9 o | 549.0 o | 0.96 o |
| 3500  |   | MNA_D    | 110kV | SBA1     | 1.39    | 0.22    | 0.22   |
| 10    |   |          |       |          |         |         |        |
| Trafo | 0 | MPNV     | 110kV | T101_cmp | 89.6 o  | 723.9 o | 1.41 o |
| 3500  |   | MPNV     | 22kV  | SBA1     | 0.47    | 0.47    | 0.47   |
| 0     |   |          |       |          |         |         |        |

|         |   |      |       |      |         |      |        |
|---------|---|------|-------|------|---------|------|--------|
| FaultNd | 0 | MPNV | 110kV | SBA1 | 812.9 o |      | 4.27 o |
| -77.6   |   | eISn | NetGr |      | 0.0     | 73.3 | 67.6   |
| 69.9    | 1 |      |       |      |         |      | 24.2/  |

| Type        | Nm    | Station | VL | Circuit | S"k    | Sbrk1  | 3*I0   |
|-------------|-------|---------|----|---------|--------|--------|--------|
| (PhiI0)     |       | SbLim   |    | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes:     |       |         |    |         |        |        |        |
| (V0/vfault) | IOLim |         |    |         |        |        |        |

|       |   |      |       |          |       |       |        |
|-------|---|------|-------|----------|-------|-------|--------|
| Trafo | 0 | MPNV | 110kV | T101_cmp | 0.0 o | 0.0 o | 0.00 o |
| 600   |   | MPNV | 110kV | SBA1     | 0.00  | 0.00  | 0.00   |
| 0     |   |      |       |          |       |       |        |

|         |   |      |       |      |       |      |        |
|---------|---|------|-------|------|-------|------|--------|
| FaultNd | 0 | MPNV | 22kV  | SBA1 | 0.0 o |      | 0.00 o |
| -90.0   |   | eISn | NetGr |      | 0.0   | 24.2 | 24.2   |
| 14.0    | 1 |      |       |      |       |      | 14.0/  |

|      |   |      |      |          |       |       |        |
|------|---|------|------|----------|-------|-------|--------|
| Load | 0 | MPNV | 22kV | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |
| 600  |   |      |      |          | 0.00  | 0.00  | 0.00   |
| Load | 0 | MPNV | 22kV | SBA2LOAD | 0.0 o | 0.0 o | 0.00 o |
| 600  |   |      |      |          | 0.00  | 0.00  | 0.00   |

## 03 1f zkraty - zapojení bez můstku

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim | VL             | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------------------------|----------------|--------------------|---------------|-----------------|----------------|
| ohlCb<br>3500                             | 0                    | MWVEDENI                  | 110kV          | 5577_NZD           | 301.8 o       | 490.0 o         | 0.74 o         |
| 10                                        |                      | MNZ_D                     | 110kV          | SBA1               | 1.58          | 0.43            | 0.43           |
| ohlCb<br>3500                             | 0                    | MWVEDENI                  | 110kV          | 5578_PRT           | 328.6 o       | 463.2 o         | 0.88 o         |
| 10                                        |                      | MZDO                      | 110kV          | SBA1               | 1.72          | 0.42            | 0.42           |
| ohlCb<br>3500                             | 0                    | MWVEDENI                  | 110kV          | 5594_KNC           | 29.6 o        | 762.1 o         | 0.47 o         |
| 10                                        |                      | MKNC                      | 110kV          | SBA1               | 0.16          | 0.16            | 0.16           |
| ohlCb<br>3500                             | 0                    | MWVEDENI                  | 110kV          | _556_PRT           | 0.1 o         | 791.8 o         | 0.00 o         |
| 10                                        |                      | MWVEDENI                  | 110kV          | _556_PRT           | 0.00          | 0.00            | 0.00           |
| Trafo<br>35000                            | 0                    | MPRT                      | 110kV          | T103_cmp           | 65.2 o        | 726.8 o         | 1.03 o         |
| 0                                         |                      | MPRT                      | 22kV           | SBB1               | 0.34          | 0.34            | 0.34           |
| Trafo<br>35000                            | 0                    | MPRT                      | 110kV          | T101_cmp           | 67.2 o        | 724.7 o         | 1.06 o         |
| 0                                         |                      | MPRT                      | 22kV           | SBA1               | 0.35          | 0.35            | 0.35           |
| FaultNd<br>-78.8                          | 0                    | MPRT<br>elSn              | 110kV<br>NetGr | SBA                | 791.7 o       |                 | 4.16 o         |
| 69.9                                      | 1                    |                           |                |                    | 0.0           | 69.5            | 64.6 19.3/     |
| ~~~~~                                     |                      |                           |                |                    |               |                 |                |
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim | VL             | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
| Trafo<br>600                              | 0                    | MPRT                      | 110kV          | T101_cmp           | 0.0 o         | 0.0 o           | 0.00 o         |
| 0                                         |                      | MPRT                      | 110kV          | SBA                | 0.00          | 0.00            | 0.00           |
| FaultNd<br>-90.0                          | 0                    | MPRT<br>elSn              | 22kV<br>NetGr  | SBA1               | 0.0 o         |                 | 0.00 o         |
| 14.0                                      | 1                    |                           |                |                    | 0.0           | 24.2            | 24.2 14.0/     |
| ~~~~~                                     |                      |                           |                |                    |               |                 |                |
| Load<br>600                               | 0                    | MPRT                      | 22kV           | SBA1LOAD           | 0.0 o         | 0.0 o           | 0.00 o         |
| 0                                         |                      |                           |                |                    | 0.00          | 0.00            | 0.00           |
| Load<br>600                               | 0                    | MPRT                      | 22kV           | SBA2LOAD           | 0.0 o         | 0.0 o           | 0.00 o         |
| 0                                         |                      |                           |                |                    | 0.00          | 0.00            | 0.00           |
| ~~~~~                                     |                      |                           |                |                    |               |                 |                |

## 03 1f zkraty - zapojení bez můstku

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim | VL            | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt)       |
|-------------------------------------------|----------------------|---------------------------|---------------|--------------------|---------------|-----------------|----------------------|
| Trafo                                     | 0<br>600<br>0        | MPRT                      | 110kV         | T103_cmp           | 0.0 o         | 0.0 o           | 0.00 o               |
|                                           |                      | MPRT                      | 110kV         | SBA                | 0.00          | 0.00            | 0.00                 |
| FaultNd<br>-90.0                          | 0<br>1               | MPRT<br>eISn              | 22kV<br>NetGr | SBB1               | 0.0 o<br>0.0  | 24.2            | 0.00 o<br>24.2 14.0/ |
| Load                                      | 0<br>600             | MPRT                      | 22kV          | SBB1LOAD           | 0.0 o         | 0.0 o           | 0.00 o               |
| Load                                      | 0<br>600             | MPRT                      | 22kV          | SBB2LOAD           | 0.00<br>0.0 o | 0.00<br>0.0 o   | 0.00<br>0.00 o       |
|                                           |                      |                           |               |                    | 0.00          | 0.00            | 0.00                 |

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim | VL             | Circuit<br>Busbar) | S"k<br>Ir(Vr)  | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt)       |
|-------------------------------------------|----------------------|---------------------------|----------------|--------------------|----------------|-----------------|----------------------|
| OhlCb                                     | 0<br>5000            | MWVEDENI                  | 110kV          | _573_OKC           | 536.3 o        | 536.3 o         | 2.10 o               |
|                                           |                      | MOKC                      | 110kV          | SBB1               | 2.81           | 0.36            | 0.36                 |
| Trafo                                     | 10<br>0<br>2500<br>0 | MRYC                      | 110kV          | T101_cmp           | 69.3 o         | 536.3 o         | 1.09 o               |
|                                           |                      | MRYC                      | 22kV           | SB.A1              | 0.36           | 0.36            | 0.36                 |
| FaultNd<br>-78.1                          | 0<br>1               | MRYC<br>eISn              | 110kV<br>NetGr | SBA1               | 605.1 o<br>0.0 | 79.3            | 3.18 o<br>75.3 32.1/ |

| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim<br>IOLim | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------------------------|-------|--------------------|---------------|-----------------|----------------|
| Trafo                                     | 0<br>600<br>0        | MRYC                      | 110kV | T101_cmp           | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           |                      | MRYC                      | 110kV | SBA1               | 0.00          | 0.00            | 0.00           |

03 1f zkraty - zapojení bez můstku

|       |    |   |      |       |       |       |        |       |
|-------|----|---|------|-------|-------|-------|--------|-------|
| Fault | Nd | 0 | MRYC | 22kv  | SB.A1 | 0.0 o | 0.00 o |       |
| -90.0 |    |   | eISn | NetGr |       |       |        |       |
| 14.0  | 1  |   |      |       | 0.0   | 24.2  | 24.2   | 14.0/ |

|      |     |      |      |          |       |       |        |  |
|------|-----|------|------|----------|-------|-------|--------|--|
| Load | 0   | MRYC | 22kv | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |  |
|      | 600 |      |      |          |       |       |        |  |
| Load | 0   | MRYC | 22kv | SBA2LOAD | 0.00  | 0.00  | 0.00   |  |
|      | 600 |      |      |          | 0.0 o | 0.0 o | 0.00 o |  |
|      |     |      |      |          | 0.00  | 0.00  | 0.00   |  |

| Type        | Nm   | Station  | VL    | Circuit  | S"k     | Sbrk1   | 3*I0   |
|-------------|------|----------|-------|----------|---------|---------|--------|
| (PhiI0)     |      | SbLim    |       | Busbar)  | Ir(Vr)  | Is(Vs)  | It(Vt) |
| (nodes:     |      |          |       |          |         |         |        |
| (V0/vfault) |      | IOLim    |       |          |         |         |        |
| ohlcb       | 0    | MWVEDENI | 110kv | 5510_SLM | 509.7 o | 509.7 o | 1.75 o |
|             | 3500 |          |       |          |         |         |        |
|             | 10   | MUBR     | 110kv | SBB      | 2.68    | 0.47    | 0.47   |
| Trafo       | 0    | MSLM     | 110kv | T101_cmp | 89.2 o  | 509.7 o | 1.40 o |
|             | 3500 |          |       |          |         |         |        |
|             | 0    | MSLM     | 22kv  | SBA1     | 0.47    | 0.47    | 0.47   |

|       |    |   |      |       |      |         |        |       |
|-------|----|---|------|-------|------|---------|--------|-------|
| Fault | Nd | 0 | MSLM | 110kv | SBA1 | 598.2 o | 3.14 o |       |
| -73.2 |    |   | eISn | NetGr |      |         |        |       |
| 69.9  | 1  |   |      |       | 0.0  | 78.5    | 66.9   | 27.2/ |

| Type        | Nm  | Station | VL    | Circuit  | S"k    | Sbrk1  | 3*I0   |
|-------------|-----|---------|-------|----------|--------|--------|--------|
| (PhiI0)     |     | SbLim   |       | Busbar)  | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes:     |     |         |       |          |        |        |        |
| (V0/vfault) |     | IOLim   |       |          |        |        |        |
| Trafo       | 0   | MSLM    | 110kv | T101_cmp | 0.0 o  | 0.0 o  | 0.00 o |
|             | 600 |         |       |          |        |        |        |
|             | 0   | MSLM    | 110kv | SBA1     | 0.00   | 0.00   | 0.00   |

|       |    |   |      |       |      |       |        |       |
|-------|----|---|------|-------|------|-------|--------|-------|
| Fault | Nd | 0 | MSLM | 22kv  | SBA1 | 0.0 o | 0.00 o |       |
| -90.0 |    |   | eISn | NetGr |      |       |        |       |
| 14.0  | 1  |   |      |       | 0.0  | 24.2  | 24.2   | 14.0/ |

|      |     |      |      |          |       |       |        |  |
|------|-----|------|------|----------|-------|-------|--------|--|
| Load | 0   | MSLM | 22kv | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |  |
|      | 600 |      |      |          |       |       |        |  |
|      |     |      |      |          | 0.00  | 0.00  | 0.00   |  |

| 03 1f zkraty - zapojení bez můstku        |             |                  |       |                    |               |                 |                |
|-------------------------------------------|-------------|------------------|-------|--------------------|---------------|-----------------|----------------|
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim | Station<br>IOLim | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
| =====                                     |             |                  |       |                    |               |                 |                |
| OhlCb                                     | 0           | MWVEDENI         | 110kV | 5574_MAD           | 835.6 o       | 835.6 o         | 3.63 o         |
|                                           | 5000        |                  |       |                    |               |                 |                |
|                                           |             | MMAD             | 110kV | SBA                | 4.39          | 0.39            | 0.39           |
| OhlCb                                     | 10          | MWVEDENI         | 110kV | _568_VST           | 225.8 o       | 927.7 o         | 0.98 o         |
|                                           | 3500        |                  |       |                    |               |                 |                |
|                                           |             | MVST             | 110kV | SBB                | 1.19          | 0.10            | 0.10           |
| Trafo                                     | 10          | MSLU             | 110kV | T101_cmp           | 93.1 o        | 1061.4 o        | 1.47 o         |
|                                           | 3500        |                  |       |                    |               |                 |                |
|                                           |             | MSLU             | 22kV  | SBA1               | 0.49          | 0.49            | 0.49           |
|                                           | 0           |                  |       |                    |               |                 |                |
| -----                                     |             |                  |       |                    |               |                 |                |
| FaultNd                                   | 0           | MSLU             | 110kV | SBA1               | 1153.4 o      |                 | 6.05 o         |
| -77.2                                     |             | eISn             | NetGr |                    |               |                 |                |
|                                           |             |                  |       |                    | 0.0           | 74.2            | 71.1 26.8/     |
| 69.9                                      | 1           |                  |       |                    |               |                 |                |
| ~~~~~                                     |             |                  |       |                    |               |                 |                |
| =====                                     |             |                  |       |                    |               |                 |                |
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim | Station<br>IOLim | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
| =====                                     |             |                  |       |                    |               |                 |                |
| Trafo                                     | 0           | MSLU             | 110kV | T101_cmp           | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           | 600         |                  |       |                    |               |                 |                |
|                                           |             | MSLU             | 110kV | SBA1               | 0.00          | 0.00            | 0.00           |
|                                           | 0           |                  |       |                    |               |                 |                |
| -----                                     |             |                  |       |                    |               |                 |                |
| FaultNd                                   | 0           | MSLU             | 22kV  | SBA1               | 0.0 o         |                 | 0.00 o         |
| -90.0                                     |             | eISn             | NetGr |                    |               |                 |                |
|                                           |             |                  |       |                    | 0.0           | 24.2            | 24.2 14.0/     |
| 14.0                                      | 1           |                  |       |                    |               |                 |                |
| -----                                     |             |                  |       |                    |               |                 |                |
| Load                                      | 0           | MSLU             | 22kV  | SBA1LOAD           | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           | 600         |                  |       |                    |               |                 |                |
| Load                                      | 0           | MSLU             | 22kV  | SBA2LOAD           | 0.00          | 0.00            | 0.00           |
|                                           | 600         |                  |       |                    | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           |             |                  |       |                    | 0.00          | 0.00            | 0.00           |
| ~~~~~                                     |             |                  |       |                    |               |                 |                |
| =====                                     |             |                  |       |                    |               |                 |                |
| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim | Station<br>IOLim | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
| =====                                     |             |                  |       |                    |               |                 |                |
| OhlCb                                     | 0           | MWVEDENI         | 110kV | 5573_MAD           | 2148.4 o      | 2148.4 o        | 10.92 o        |
|                                           | 5000        |                  |       |                    |               |                 |                |
|                                           |             | MMAD             | 110kV | SBA                | 11.28         | 0.18            | 0.18           |
| Trafo                                     | 15          | MSVI             | 110kV | T114_cmp           | 81.9 o        | 2148.4 o        | 0.79 o         |
|                                           | F           |                  |       |                    |               |                 |                |

| 03 1f zkraty - zapojení bez můstku |    |          |       |          |          |          |            |
|------------------------------------|----|----------|-------|----------|----------|----------|------------|
| 2500                               |    | MSVI     | 6kV   | SBA      | 0.43     | 0.18     | 0.18       |
| 0                                  |    |          |       |          |          |          |            |
| -----                              |    |          |       |          |          |          |            |
| FaultNd                            | 0  | MSVI     | 110kV | SBV.T114 | 2229.9 o |          | 11.70 o    |
| -82.9                              |    | eISn     | NetGr |          | 0.0      | 68.0     | 68.6 21.1/ |
| 69.9                               | 1  |          |       |          |          |          |            |
| ~~~~~                              |    |          |       |          |          |          |            |
| =====                              |    |          |       |          |          |          |            |
| Type                               | Nm | Station  | VL    | Circuit  | S"k      | Sbrk1    | 3*I0       |
| (PhiI0)                            |    | SbLim    |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt)     |
| (nodes:                            |    |          |       |          |          |          |            |
| (V0/Vfault)                        |    | IOLim    |       |          |          |          |            |
| =====                              |    |          |       |          |          |          |            |
| OhlCb                              | 0  | MWVEDENI | 110kV | 5572_MAD | 2116.2 o | 2116.2 o | 10.53 o    |
| 3500                               |    | MMAD     | 110kV | SBA      | 11.11    | 0.29     | 0.29       |
| Trafo                              | 15 | MSVI     | 110kV | T115_cmp | 125.1 o  | 2116.2 o | 1.24 o     |
| 2500                               |    | MSVI     | 6kV   | SBA      | 0.66     | 0.29     | 0.29       |
| 0                                  |    |          |       |          |          |          |            |
| -----                              |    |          |       |          |          |          |            |
| FaultNd                            | 0  | MSVI     | 110kV | SBV.T115 | 2240.6 o |          | 11.76 o    |
| -83.0                              |    | eISn     | NetGr |          | 0.0      | 68.0     | 68.4 21.0/ |
| 69.9                               | 1  |          |       |          |          |          |            |
| ~~~~~                              |    |          |       |          |          |          |            |
| =====                              |    |          |       |          |          |          |            |
| Type                               | Nm | Station  | VL    | Circuit  | S"k      | Sbrk1    | 3*I0       |
| (PhiI0)                            |    | SbLim    |       | Busbar)  | Ir(Vr)   | Is(Vs)   | It(Vt)     |
| (nodes:                            |    |          |       |          |          |          |            |
| (V0/Vfault)                        |    | IOLim    |       |          |          |          |            |
| =====                              |    |          |       |          |          |          |            |
| Trafo                              | F  | MSVI     | 110kV | T114_cmp | 3.0 o    | 3.0 o    | 0.00 o     |
| 600                                |    | MSVI     | 110kV | SBV.T114 | 0.28     | 0.28     | 0.28       |
| Trafo                              | 0  | MSVI     | 110kV | T115_cmp | 4.8 o    | 4.8 o    | 0.00 o     |
| 600                                |    | MSVI     | 110kV | SBV.T115 | 0.44     | 0.44     | 0.44       |
| 0                                  |    |          |       |          |          |          |            |
| -----                              |    |          |       |          |          |          |            |
| FaultNd                            | F  | MSVI     | 6kV   | SBA      | 0.0 o    |          | 0.00 o     |
| -90.0                              |    | eISn     | NetGr |          | 0.0      | 6.9      | 6.9 4.0/   |
| 4.0                                | 1  |          |       |          |          |          |            |
| -----                              |    |          |       |          |          |          |            |
| Load                               | F  | MSVI     | 6kV   | SBALOAD  | 0.0 o    | 0.0 o    | 0.00 o     |
| 600                                |    |          |       |          | 0.00     | 0.00     | 0.00       |
| Gen                                | F  | MSVI     | 6kV   | GEN31cmp | 0.0 o    | 0.0 o    | 0.00 o     |
| 600                                |    |          |       |          | 0.00     | 0.00     | 0.00       |
| Gen                                | F  | MSVI     | 6kV   | GEN6cmp  | 0.0 o    | 0.0 o    | 0.00 o     |
| 600                                |    |          |       |          | 0.00     | 0.00     | 0.00       |

## 03 1f zkraty - zapojení bez můstku

0.00 0.00 0.00

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Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlCb	0	MWVEDENI	110kV	5570_OKC	462.1 o	879.1 o	1.12 o
	5000	MOKC	110kV	SBA1	2.43	0.66	0.66
ohlCb	10	MWVEDENI	110kV	5571_OKC	462.1 o	879.1 o	1.12 o
	5000	MOKC	110kV	SBA1	2.43	0.66	0.66
ohlCb	10	MWVEDENI	110kV	_543_UBR	189.5 o	1151.8 o	1.23 o
	3500	MVKA	110kV	SBA3	0.99	0.12	0.12
ohlCb	10	MWVEDENI	110kV	5510_SLM	52.4 o	1288.8 o	0.83 o
	3500	MSLM	110kV	SBA1	0.28	0.28	0.28
Trafo	10	MUBR	110kV	T101_cmp	87.1 o	1254.3 o	1.37 o
	3500	MUBR	22kV	SBA1	0.46	0.46	0.46
Trafo	0	MUBR	110kV	T102_cmp	88.5 o	1253.0 o	1.39 o
	3500	MUBR	22kV	SBB1	0.46	0.46	0.46
	0						

FaultNd	0	MUBR	110kV	SBB	1341.2 o		7.04 o
-80.8		eISn	NetGr		0.0	73.8	68.9 25.3/
69.9	1						

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>SbLim | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|------------------|-------|--------------------|---------------|-----------------|----------------|
| Trafo                                     | 0                    | MUBR             | 110kV | T101_cmp           | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           | 600                  | MUBR             | 110kV | SBB                | 0.00          | 0.00            | 0.00           |
|                                           | 0                    |                  |       |                    |               |                 |                |

|         |   |      |       |      |       |      |            |
|---------|---|------|-------|------|-------|------|------------|
| FaultNd | 0 | MUBR | 22kV  | SBA1 | 0.0 o |      | 0.00 o     |
| -90.0   |   | eISn | NetGr |      | 0.0   | 24.2 | 24.2 14.0/ |
| 14.0    | 1 |      |       |      |       |      |            |

|      |     |      |      |          |       |       |        |
|------|-----|------|------|----------|-------|-------|--------|
| Load | 0   | MUBR | 22kV | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |
|      | 600 |      |      |          | 0.00  | 0.00  | 0.00   |
| Load | 0   | MUBR | 22kV | SBA2LOAD | 0.0 o | 0.0 o | 0.00 o |

## 03 1f zkraty - zapojení bez můstku

600

0.00

0.00

0.00

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|

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|       |               |      |       |          |       |       |        |
|-------|---------------|------|-------|----------|-------|-------|--------|
| Trafo | 0<br>600<br>0 | MUBR | 110kV | T102_cmp | 0.0 o | 0.0 o | 0.00 o |
|       |               | MUBR | 110kV | SBB      | 0.00  | 0.00  | 0.00   |

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|         |   |      |       |      |       |      |            |
|---------|---|------|-------|------|-------|------|------------|
| FaultNd | 0 | MUBR | 22kV  | SBB1 | 0.0 o |      | 0.00 o     |
| -90.0   |   | eISn | NetGr |      | 0.0   | 24.2 | 24.2 14.0/ |
| 14.0    | 1 |      |       |      |       |      |            |

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|      |          |      |      |          |               |               |                |
|------|----------|------|------|----------|---------------|---------------|----------------|
| Load | 0<br>600 | MUBR | 22kV | SBB1LOAD | 0.0 o         | 0.0 o         | 0.00 o         |
| Load | 0<br>600 | MUBR | 22kV | SBB2LOAD | 0.00<br>0.0 o | 0.00<br>0.0 o | 0.00<br>0.00 o |
|      |          |      |      |          | 0.00          | 0.00          | 0.00           |

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|

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|       |            |          |       |          |         |          |        |
|-------|------------|----------|-------|----------|---------|----------|--------|
| ohlCb | 0<br>5000  | MWVEDENI | 110kV | 5516_OKC | 683.8 o | 1296.1 o | 0.38 o |
|       |            | MOKC     | 110kV | SBB1     | 3.59    | 1.61     | 1.61   |
| ohlCb | 10<br>5000 | MWVEDENI | 110kV | 5517_OKC | 683.8 o | 1296.1 o | 0.38 o |
|       |            | MOKC     | 110kV | SBB1     | 3.59    | 1.61     | 1.61   |
| Trafo | 0<br>3500  | MUHD     | 110kV | T101_cmp | 612.4 o | 1367.6 o | 9.64 o |
|       |            | MUHD     | 22kV  | SBA      | 3.21    | 3.21     | 3.21   |

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|         |   |      |       |      |          |      |           |
|---------|---|------|-------|------|----------|------|-----------|
| FaultNd | 0 | MUHD | 110kV | SBA1 | 1979.9 o |      | 10.39 o   |
| -77.1   |   | eISn | NetGr |      | 0.0      | 62.1 | 59.5 4.2/ |
| 69.9    | 1 |      |       |      |          |      |           |

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/Vfault) | Nm<br>SbLim<br>IOLim | Station<br>VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------------|--------------------|---------------|-----------------|----------------|

## 03 1f zkraty - zapojení bez můstku

|         |   |      |       |          |       |       |            |
|---------|---|------|-------|----------|-------|-------|------------|
| Trafo   | 0 | MUHD | 110kV | T101_cmp | 0.0 o | 0.0 o | 0.00 o     |
| 600     |   | MUHD | 110kV | SBA1     | 0.00  | 0.00  | 0.00       |
| 0       |   |      |       |          |       |       |            |
| FaultNd | 0 | MUHD | 22kV  | SBA      | 0.0 o |       | 0.00 o     |
| -90.0   |   | eISn | NetGr |          | 0.0   | 24.2  | 24.2 14.0/ |
| 14.0    | 1 |      |       |          |       |       |            |
| Load    | 0 | MUHD | 22kV  | SBALOAD  | 0.0 o | 0.0 o | 0.00 o     |
| 600     |   |      |       |          | 0.00  | 0.00  | 0.00       |
|         |   |      |       |          |       |       |            |

| Type        | Nm | Station  | VL    | Circuit  | S"k     | Sbrk1   | 3*I0       |
|-------------|----|----------|-------|----------|---------|---------|------------|
| (PhiI0)     |    | SbLim    |       | Busbar)  | Ir(Vr)  | Is(Vs)  | It(Vt)     |
| (nodes:     |    |          |       |          |         |         |            |
| (V0/Vfault) |    | IOLim    |       |          |         |         |            |
| ohlCb       | 0  | MWVEDENI | 110kV | _540_VKA | 273.2 o | 600.1 o | 1.57 o     |
| 3500        |    | MVLM     | 110kV | SBA7     | 1.43    | 0.07    | 0.07       |
| 10          |    |          |       |          |         |         |            |
| ohlCb       | 0  | MWVEDENI | 110kV | _543_UBR | 542.4 o | 542.4 o | 2.11 o     |
| 3500        |    | MUBR     | 110kV | SBB      | 2.85    | 0.37    | 0.37       |
| 10          |    |          |       |          |         |         |            |
| Trafo       | 0  | MVKA     | 110kV | T103_cmp | 58.1 o  | 815.6 o | 0.92 o     |
| 3500        |    | MVKA     | 22kV  | SBA      | 0.31    | 0.31    | 0.31       |
| 0           |    |          |       |          |         |         |            |
| FaultNd     | 0  | MVKA     | 110kV | SBA3     | 873.3 o |         | 4.58 o     |
| -78.2       |    | eISn     | NetGr |          | 0.0     | 75.8    | 70.4 27.4/ |
| 69.9        | 1  |          |       |          |         |         |            |
| Load        | 0  | MVKA     | 110kV | T102LOAD | 0.0 o   | 873.3 o | 0.00 o     |
| 3500        |    |          |       |          | 0.00    | 0.00    | 0.00       |
|             |    |          |       |          |         |         |            |

| Type        | Nm | Station | VL    | Circuit  | S"k    | Sbrk1  | 3*I0   |
|-------------|----|---------|-------|----------|--------|--------|--------|
| (PhiI0)     |    | SbLim   |       | Busbar)  | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes:     |    |         |       |          |        |        |        |
| (V0/Vfault) |    | IOLim   |       |          |        |        |        |
| Trafo       | 0  | MVKA    | 110kV | T103_cmp | 0.0 o  | 0.0 o  | 0.00 o |
| 600         |    | MVKA    | 110kV | SBA3     | 0.00   | 0.00   | 0.00   |
| 0           |    |         |       |          |        |        |        |
| FaultNd     | 0  | MVKA    | 22kV  | SBA      | 0.0 o  |        | 0.00 o |

03 1f zkraty - zapojení bez můstku

|       |      |       |  |     |      |      |       |
|-------|------|-------|--|-----|------|------|-------|
| -90.0 | eISn | NetGr |  | 0.0 | 24.2 | 24.2 | 14.0/ |
| 14.0  | 1    |       |  |     |      |      |       |

|      |     |      |      |         |       |       |        |
|------|-----|------|------|---------|-------|-------|--------|
| Load | 0   | MVKA | 22kV | SBALOAD | 0.0 o | 0.0 o | 0.00 o |
|      | 600 |      |      |         |       |       |        |
|      |     |      |      |         | 0.00  | 0.00  | 0.00   |

| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station  | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|----------|-------|--------------------|---------------|-----------------|----------------|
| ohlCb                                     | 0                    | MWVEDENI | 110kV | _540_VKA           | 427.3 o       | 427.3 o         | 1.83 o         |
|                                           | 3500                 |          |       |                    |               |                 |                |
|                                           | 10                   | MVKA     | 110kV | SBA3               | 2.24          | 0.21            | 0.21           |
| ohlCb                                     | 0                    | MWVEDENI | 110kV | _544_HO_           | 310.2 o       | 484.8 o         | 1.44 o         |
|                                           | 3500                 |          |       |                    |               |                 |                |
|                                           | 10                   | MHO      | 110kV | SBB1               | 1.63          | 0.10            | 0.10           |
| Trafo                                     | 0                    | MVLM     | 110kV | T103_cmp           | 57.9 o        | 737.5 o         | 0.91 o         |
|                                           | 3500                 |          |       |                    |               |                 |                |
|                                           | 0                    | MVLM     | 22kV  | SBA1               | 0.30          | 0.30            | 0.30           |

|         |   |      |       |      |         |      |        |
|---------|---|------|-------|------|---------|------|--------|
| FaultNd | 0 | MVLM | 110kV | SBA7 | 795.0 o |      | 4.17 o |
| -77.8   |   | eISn | NetGr |      |         |      |        |
|         |   |      |       |      | 0.0     | 75.7 | 70.1   |
| 69.9    | 1 |      |       |      |         |      | 27.2/  |

|      |      |      |       |          |       |         |        |
|------|------|------|-------|----------|-------|---------|--------|
| Load | F    | MVLM | 110kV | T102LOAD | 0.0 o | 795.0 o | 0.00 o |
|      | 3500 |      |       |          |       |         |        |
|      |      |      |       |          | 0.00  | 0.00    | 0.00   |

| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL    | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|-------|--------------------|---------------|-----------------|----------------|
| Trafo                                     | 0                    | MVLM    | 110kV | T103_cmp           | 0.0 o         | 0.0 o           | 0.00 o         |
|                                           | 600                  |         |       |                    |               |                 |                |
|                                           | 0                    | MVLM    | 110kV | SBA7               | 0.00          | 0.00            | 0.00           |

|         |   |      |       |      |       |      |        |
|---------|---|------|-------|------|-------|------|--------|
| FaultNd | 0 | MVLM | 22kV  | SBA1 | 0.0 o |      | 0.00 o |
| -90.0   |   | eISn | NetGr |      |       |      |        |
|         |   |      |       |      | 0.0   | 24.2 | 24.2   |
| 14.0    | 1 |      |       |      |       |      | 14.0/  |

|      |     |      |      |          |       |       |        |
|------|-----|------|------|----------|-------|-------|--------|
| Load | 0   | MVLM | 22kV | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |
|      | 600 |      |      |          |       |       |        |
|      |     |      |      |          | 0.00  | 0.00  | 0.00   |
| Load | 0   | MVLM | 22kV | SBA2LOAD | 0.0 o | 0.0 o | 0.00 o |

## 03 1f zkraty - zapojení bez můstku

600

0.00

0.00

0.00

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|

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|       |      |          |       |          |         |         |        |
|-------|------|----------|-------|----------|---------|---------|--------|
| ohlcb | 0    | MWVEDENI | 110kV | _567_MAD | 441.7 o | 441.7 o | 2.22 o |
|       | 5000 |          |       |          |         |         |        |
|       | 10   | MMAD     | 110kV | SBA      | 2.32    | 0.05    | 0.05   |
| ohlcb | 0    | MWVEDENI | 110kV | _568_VST | 398.9 o | 441.7 o | 2.20 o |
|       | 3500 |          |       |          |         |         |        |
|       | 10   | MSLU     | 110kV | SBA1     | 2.09    | 0.05    | 0.05   |

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|         |   |      |       |     |         |      |            |
|---------|---|------|-------|-----|---------|------|------------|
| FaultNd | F | MVST | 110kV | SBB | 840.6 o |      | 4.41 o     |
| -75.1   |   | eISn | NetGr |     |         |      |            |
|         | 1 |      |       |     | 0.0     | 78.1 | 75.5 31.5/ |
| 69.9    |   |      |       |     |         |      |            |

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|

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|       |      |          |       |          |         |         |        |
|-------|------|----------|-------|----------|---------|---------|--------|
| ohlcb | 0    | MWVEDENI | 110kV | _556_PRT | 387.7 o | 387.7 o | 2.03 o |
|       | 3500 |          |       |          |         |         |        |
|       | 10   | MPRT     | 110kV | SBA      | 2.03    | 0.00    | 0.00   |

-----

|         |   |          |       |          |         |      |            |
|---------|---|----------|-------|----------|---------|------|------------|
| FaultNd | 0 | MWVEDENI | 110kV | _556_PRT | 387.7 o |      | 2.03 o     |
| -74.8   |   | eISn     | NetGr |          |         |      |            |
|         | 1 |          |       |          | 0.0     | 78.6 | 74.8 31.4/ |
| 69.9    |   |          |       |          |         |      |            |

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| Type<br>(PhiI0)<br>(nodes:<br>(V0/vfault) | Nm<br>SbLim<br>IOLim | Station | VL | Circuit<br>Busbar) | S"k<br>Ir(Vr) | Sbrk1<br>Is(Vs) | 3*I0<br>It(Vt) |
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|
|-------------------------------------------|----------------------|---------|----|--------------------|---------------|-----------------|----------------|

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|       |      |          |       |          |         |         |        |
|-------|------|----------|-------|----------|---------|---------|--------|
| ohlcb | 0    | MWVEDENI | 110kV | 5576_OKC | 709.4 o | 709.4 o | 2.84 o |
|       | 5000 |          |       |          |         |         |        |
|       | 10   | MOKC     | 110kV | SBB1     | 3.72    | 0.44    | 0.44   |
| ohlcb | 0    | MWVEDENI | 110kV | 5578_PRT | 196.6 o | 767.0 o | 1.31 o |
|       | 3500 |          |       |          |         |         |        |
|       | 10   | MPRT     | 110kV | SBA      | 1.03    | 0.14    | 0.14   |
| Trafo | 0    | MZDO     | 110kV | T101_cmp | 58.3 o  | 906.0 o | 0.92 o |
|       | 3500 |          |       |          |         |         |        |

|                                    |       |         |       |          |         |        |            |
|------------------------------------|-------|---------|-------|----------|---------|--------|------------|
| 03 1f zkraty - zapojení bez můstku |       |         |       |          |         |        |            |
|                                    | MZDO  | 22kv    | SBA1  | 0.31     | 0.31    | 0.31   |            |
| 0                                  |       |         |       |          |         |        |            |
| -----                              |       |         |       |          |         |        |            |
| FaultNd                            | 0     | MZDO    | 110kv | SBA1     | 963.6 o |        | 5.06 o     |
| -79.1                              |       | eISn    | NetGr |          |         |        |            |
|                                    |       |         |       |          | 0.0     | 73.4   | 71.8 26.8/ |
| 69.9                               | 1     |         |       |          |         |        |            |
| ~~~~~                              |       |         |       |          |         |        |            |
| =====                              |       |         |       |          |         |        |            |
| Type                               | Nm    | Station | VL    | Circuit  | S"k     | Sbrk1  | 3*I0       |
| (PhiI0)                            |       | SbLim   |       | Busbar)  | Ir(Vr)  | Is(Vs) | It(Vt)     |
| (nodes:                            |       |         |       |          |         |        |            |
| (V0/vfault)                        | IOLim |         |       |          |         |        |            |
| =====                              |       |         |       |          |         |        |            |
| Trafo                              | 0     | MZDO    | 110kv | T101_cmp | 0.0 o   | 0.0 o  | 0.00 o     |
| 600                                |       |         |       |          |         |        |            |
|                                    | 0     | MZDO    | 110kv | SBA1     | 0.00    | 0.00   | 0.00       |
| 0                                  |       |         |       |          |         |        |            |
| -----                              |       |         |       |          |         |        |            |
| FaultNd                            | 0     | MZDO    | 22kv  | SBA1     | 0.0 o   |        | 0.00 o     |
| -90.0                              |       | eISn    | NetGr |          |         |        |            |
|                                    |       |         |       |          | 0.0     | 24.2   | 24.2 14.0/ |
| 14.0                               | 1     |         |       |          |         |        |            |
| -----                              |       |         |       |          |         |        |            |
| Load                               | 0     | MZDO    | 22kv  | SBA1LOAD | 0.0 o   | 0.0 o  | 0.00 o     |
| 600                                |       |         |       |          |         |        |            |
|                                    |       |         |       |          | 0.00    | 0.00   | 0.00       |
| Load                               | 0     | MZDO    | 22kv  | SBA2LOAD | 0.0 o   | 0.0 o  | 0.00 o     |
| 600                                |       |         |       |          |         |        |            |
|                                    |       |         |       |          | 0.00    | 0.00   | 0.00       |
| ~~~~~                              |       |         |       |          |         |        |            |
| ~~~~~                              |       |         |       |          |         |        |            |

**VYPOČTENÉ HODNOTY**

**USTÁLENÝ CHOD SÍTĚ PŘI ZAPOJENÍ S**  
**MŮSTKEM**

# 01 UCH - zapojení s můstkem T401 + T403

```
=====
Load Flow Calculation Tue 03.05.11 10:48:46 Start: single Name:05020906
Copynr:35
=====
```

## PROGRAM CHARACTERISTICS

```

388 nodes 222 lines/cables
274 loads 15 busbar couplers
14 generators 205 transformers
38 injections/equiv.injections 0 equivalent branches
 6 shunts

4 electrical sub-networks

3 iterations

5 balance diagnosis
0 limit violations
```

## Generations, Loads and Losses

```
=====
=== =====
Network Membership ---> no. own no. subjac. no. boundry no. foreign
no. undef.v
=====
=== =====
Line&Coupl. Sum Ploss [MW] 215 -11.0 0 0.0 0 0.0 22 -4.1
0 0.0
 Qloss [MVar] 114.4 0.0 0.0 257.2
 0.0

--- -----
Transform. Sum Ploss [MW] 150 -6.8 0 0.0 0 0.0 55 -4.2
0 0.0
 Qloss [MVar] -89.7 0.0 0.0 -86.9
 0.0

--- -----
Shunts Sum Ploss [MW] 4 -0.1 0 0.0 0 0.0 2 0.0
0 0.0
 Qloss [MVar] 16.8 0.0 0.0 11.2
 0.0

--- -----
EquivBrch. Sum Ploss [MW] 0 0.0 0 0.0 0 0.0 0 0.0
0 0.0
 Qloss [MVar] 0.0 0.0 0.0 0.0
 0.0
=====
=== =====

=====
=== =====
Network Membership ---> no. own no. subjac. no. boundry no. foreign
no. undef.v
=====
=== =====
Loads Sum P(+) [MW] 203 -1371.9 0 0.0 0 0.0 47 -201.3
0 0.0
 Sum Q(+) [MVar] -172.3 0.0 0.0 25.7
```

# 01 UCH - zapojení s můstkem T401 + T403

|            |          |          |     |       |   |     |   |     |    |         |  |
|------------|----------|----------|-----|-------|---|-----|---|-----|----|---------|--|
| 0.0        |          |          |     |       |   |     |   |     |    |         |  |
| -----      |          |          |     |       |   |     |   |     |    |         |  |
| Generat.   | Sum P(+) | [MW ]    | 0   | 0.0   | 0 | 0.0 | 0 | 0.0 | 11 | 152.6   |  |
| 0          | 0.0      | Sum Q(+) |     | 0.0   |   | 0.0 |   | 0.0 |    | 35.5    |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| -----      |          |          |     |       |   |     |   |     |    |         |  |
| Injections | Sum P(+) | [MW ]    | 2   | 32.0  | 0 | 0.0 | 0 | 0.0 | 21 | 5607.4  |  |
| 0          | 0.0      | Sum Q(+) |     | 4.6   |   | 0.0 |   | 0.0 |    | -156.4  |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| =====      |          |          |     |       |   |     |   |     |    |         |  |
| Loads      | Sum P(-) | [MW ]    | 21  | 51.5  | 0 | 0.0 | 0 | 0.0 | 3  | 2.9     |  |
| 0          | 0.0      | Sum Q(-) |     | -44.6 |   | 0.0 |   | 0.0 |    | -45.3   |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| -----      |          |          |     |       |   |     |   |     |    |         |  |
| Generat.   | Sum P(-) | [MW ]    | 0   | 0.0   | 0 | 0.0 | 0 | 0.0 | 3  | -1.2    |  |
| 0          | 0.0      | Sum Q(-) |     | 0.0   |   | 0.0 |   | 0.0 |    | 1.0     |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| -----      |          |          |     |       |   |     |   |     |    |         |  |
| Injections | Sum P(-) | [MW ]    | 1   | -0.4  | 0 | 0.0 | 0 | 0.0 | 14 | -4245.4 |  |
| 0          | 0.0      | Sum Q(-) |     | 0.4   |   | 0.0 |   | 0.0 |    | 128.1   |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| =====      |          |          |     |       |   |     |   |     |    |         |  |
| Zero_Inj.  | Sum P    | [MW ]    | 155 | 0.0   | 0 | 0.0 | 0 | 0.0 | 20 | -0.0    |  |
| 0          | 0.0      | Sum Q    |     | 0.1   |   | 0.0 |   | 0.0 |    | 0.1     |  |
|            | 0.0      |          |     |       |   |     |   |     |    |         |  |
| =====      |          |          |     |       |   |     |   |     |    |         |  |
| =====      |          |          |     |       |   |     |   |     |    |         |  |

```

* Total Losses P [MW] -17.780 *
* (no shunts) Q [MVar] 24.694 *
* Total Load P [MW] -1320.486 *
* Q [MVar] -216.901 *
* Total Gener. P [MW] 0.000 *
* Q [MVar] 0.000 *

```

| =====              |          |      |       |      |       |        |       |        |        |       |
|--------------------|----------|------|-------|------|-------|--------|-------|--------|--------|-------|
| -----              |          |      |       |      |       |        |       |        |        |       |
| ---Network Group-- |          |      | Nu.of | No.  | P-Gen | Q-Gen  | No.   | P-Load | Q-Load | No.   |
| P-Loss             | Q-Loss   |      |       |      |       |        |       |        |        |       |
| Num Name           | Type     | NA   | nod   | Gen. | [MW]  | [MVar] | Loads | [MW]   | [MVar] | 4pol. |
| [MW]               | [MVar]   |      |       |      |       |        |       |        |        |       |
| -----              |          |      |       |      |       |        |       |        |        |       |
| 23                 | MTVVN023 | dyn. | 82    | 0    | 0.0   | 0.0    | 134   | -846.5 | -140.0 | 89    |
| -4.3               | -63.9    |      |       |      |       |        |       |        |        |       |
| 16                 | LnJMEfor | dyn. | 48    | 2    | 42.3  | 1.8    | 8     | -14.8  | -4.4   | 61    |
| -2.4               | 23.8     |      |       |      |       |        |       |        |        |       |
| 39                 | SCADA23  | fix  | 27    | 0    | 0.0   | 0.0    | 6     | 9.1    | 28.3   | 30    |
| -3.9               | 79.9     |      |       |      |       |        |       |        |        |       |
| 6                  | InJCEfor | fix  | 23    | 0    | 0.0   | 0.0    | 10    | -35.5  | -12.5  | 28    |
| -0.4               | 20.4     |      |       |      |       |        |       |        |        |       |
| 8                  | InJMEfor | fix  | 22    | 0    | 0.0   | 0.0    | 8     | -29.5  | -5.9   | 31    |
| -2.3               | 38.6     |      |       |      |       |        |       |        |        |       |
| 4                  | GeJMEfor | fix  | 19    | 0    | 0.0   | 0.0    | 7     | -41.2  | -6.6   | 22    |

## 01 UCH - zapojení s můstkem T401 + T403

|                  |    |    |      |      |   |       |       |    |
|------------------|----|----|------|------|---|-------|-------|----|
| -0.7 16.9        |    |    |      |      |   |       |       |    |
| 18 SCADA02 dyn.  | 17 | 0  | 0.0  | 0.0  | 6 | -19.0 | 0.5   | 25 |
| -0.3 21.3        |    |    |      |      |   |       |       |    |
| 1 GeJCEown dyn.  | 15 | 0  | 0.0  | 0.0  | 6 | -22.8 | -2.8  | 20 |
| -1.1 9.5         |    |    |      |      |   |       |       |    |
| 3 GeJMEown dyn.  | 13 | 10 | 91.3 | 28.3 | 5 | -63.2 | -12.1 | 16 |
| -0.7 -7.8        |    |    |      |      |   |       |       |    |
| 5 InJCEown dyn.  | 11 | 0  | 0.0  | 0.0  | 4 | -12.2 | -0.9  | 13 |
| -1.4 -3.3        |    |    |      |      |   |       |       |    |
| 7 InJMEown dyn.  | 10 | 0  | 0.0  | 0.0  | 4 | -7.3  | 11.5  | 13 |
| -3.2 25.6        |    |    |      |      |   |       |       |    |
| 10 TrJCEfor dyn. | 8  | 1  | 7.4  | 0.6  | 2 | -8.4  | -0.6  | 9  |
| -0.1 3.2         |    |    |      |      |   |       |       |    |
| 30 MTVVN030 fix  | 8  | 1  | 10.4 | 5.8  | 2 | -9.4  | -3.9  | 8  |
| -0.2 0.1         |    |    |      |      |   |       |       |    |
| 9 TrJCEown dyn.  | 8  | 0  | 0.0  | 0.0  | 1 | -0.2  | 1.1   | 11 |
| -0.8 6.9         |    |    |      |      |   |       |       |    |
| 31 MTVVN031 fix  | 6  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 5  |
| -0.2 3.2         |    |    |      |      |   |       |       |    |
| 62 RHUM1390 fix  | 5  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 4  |
| -1.8 43.9        |    |    |      |      |   |       |       |    |
| 40 SCADA24 dyn.  | 2  | 0  | 0.0  | 0.0  | 2 | -7.8  | -1.7  | 2  |
| -0.1 -0.5        |    |    |      |      |   |       |       |    |
| 49 RPIST102 fix  | 2  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 3  |
| -0.1 0.2         |    |    |      |      |   |       |       |    |
| 59 RHUMT101 fix  | 2  | 0  | 0.0  | 0.0  | 3 | -21.0 | -0.7  | 2  |
| -0.1 -0.9        |    |    |      |      |   |       |       |    |
| 20 MTVVN020 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -2.3  | -1.2  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 21 MTVVN021 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -7.7  | -3.3  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 22 MTVVN022 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -2.4  | 0.0   | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 12 TrJMEfor fix  | 1  | 0  | 0.0  | 0.0  | 1 | 0.1   | -0.9  | 1  |
| -0.0 -0.0        |    |    |      |      |   |       |       |    |
| 24 MTVVN024 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -9.3  | -2.0  | 1  |
| -0.0 -0.5        |    |    |      |      |   |       |       |    |
| 25 MTVVN025 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -5.3  | -0.7  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 26 MTVVN026 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -8.4  | -1.8  | 1  |
| -0.1 -0.5        |    |    |      |      |   |       |       |    |
| 27 MTVVN027 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -8.0  | -2.1  | 1  |
| -0.1 -0.4        |    |    |      |      |   |       |       |    |
| 28 MTVVN028 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -3.5  | -1.0  | 1  |
| -0.1 -0.4        |    |    |      |      |   |       |       |    |
| 29 MTVVN029 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -4.0  | -2.7  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 13 LnJCEown dyn. | 1  | 0  | 0.0  | 0.0  | 1 | 0.5   | -0.5  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 15 LnJMEown dyn. | 1  | 0  | 0.0  | 0.0  | 1 | -4.2  | -2.0  | 1  |
| -0.0 -0.1        |    |    |      |      |   |       |       |    |
| 32 MTVVN032 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -10.9 | 1.6   | 1  |
| -0.1 -0.7        |    |    |      |      |   |       |       |    |
| 33 MTVVN033 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -2.5  | -0.2  | 1  |
| -0.0 -0.0        |    |    |      |      |   |       |       |    |
| 34 MTVVN034 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -7.8  | -0.3  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |
| 35 MTVVN035 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -5.4  | -1.3  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 36 MTVVN036 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -8.9  | -3.4  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 37 MTVVN037 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -6.4  | -0.2  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 38 SCADA22 fix   | 1  | 0  | 0.0  | 0.0  | 2 | -1.4  | -0.3  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |
| 14 LnJCEfor dyn. | 1  | 0  | 0.0  | 0.0  | 1 | -8.8  | -2.1  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 17 SCADA01 dyn.  | 1  | 0  | 0.0  | 0.0  | 1 | -7.4  | -2.9  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |

| 01 UCH - zapojení s můstkem T401 + T403 |   |   |     |     |   |        |       |   |  |
|-----------------------------------------|---|---|-----|-----|---|--------|-------|---|--|
| 41 SCADA25 dyn.                         | 1 | 0 | 0.0 | 0.0 | 1 | -1.5   | -2.4  | 1 |  |
| -0.0 -0.1                               |   |   |     |     |   |        |       |   |  |
| 42 RPRAT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -11.3  | -2.0  | 1 |  |
| -0.1 -0.5                               |   |   |     |     |   |        |       |   |  |
| 43 RPRAT102 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -5.2   | -1.9  | 1 |  |
| -0.1 -0.5                               |   |   |     |     |   |        |       |   |  |
| 44 RSTRT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -0.2   | -2.0  | 1 |  |
| -0.1 -0.4                               |   |   |     |     |   |        |       |   |  |
| 45 RSTRT102 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -2.0   | -1.3  | 1 |  |
| -0.1 -0.1                               |   |   |     |     |   |        |       |   |  |
| 46 RMRCT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -2.6   | -1.9  | 1 |  |
| -0.0 -0.0                               |   |   |     |     |   |        |       |   |  |
| 47 RMRCT102 fix                         | 1 | 0 | 0.0 | 0.0 | 2 | -24.4  | -2.9  | 1 |  |
| -0.1 -1.8                               |   |   |     |     |   |        |       |   |  |
| 48 RPIST101 fix                         | 1 | 0 | 0.0 | 0.0 | 2 | 4.6    | -5.1  | 1 |  |
| -0.0 -0.2                               |   |   |     |     |   |        |       |   |  |
| 11 TrJMEown dyn.                        | 1 | 0 | 0.0 | 0.0 | 1 | -3.3   | -0.5  | 1 |  |
| -0.0 -0.2                               |   |   |     |     |   |        |       |   |  |
| 50 RDAST401 dyn.                        | 1 | 0 | 0.0 | 0.0 | 1 | -3.1   | -3.4  | 1 |  |
| -0.0 -0.2                               |   |   |     |     |   |        |       |   |  |
| 51 RDAST402 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -11.5  | -1.9  | 1 |  |
| -0.1 -0.6                               |   |   |     |     |   |        |       |   |  |
| 52 RKOCT401 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -5.4   | -0.9  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 53 RKOCT402 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -6.0   | -1.1  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 54 RTABT201 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -10.8  | -1.6  | 1 |  |
| -0.0 -0.7                               |   |   |     |     |   |        |       |   |  |
| 55 RELI_TG1 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -2.7   | 0.2   | 1 |  |
| -0.0 -0.2                               |   |   |     |     |   |        |       |   |  |
| 56 RELI_TG2 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -8.0   | -1.8  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 57 RMRC1964 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -7.5   | -1.8  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 58 RMRC1965 fix                         | 1 | 0 | 0.0 | 0.0 | 2 | -7.6   | -1.7  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 19 SCADA03 dyn.                         | 1 | 0 | 0.0 | 0.0 | 1 | -2.0   | 0.3   | 1 |  |
| -0.0 -0.2                               |   |   |     |     |   |        |       |   |  |
| 60 RHUMT102 fix                         | 1 | 0 | 0.0 | 0.0 | 3 | -102.7 | -12.7 | 1 |  |
| -0.4 -5.3                               |   |   |     |     |   |        |       |   |  |
| 2 GeJCEfor dyn.                         | 1 | 0 | 0.0 | 0.0 | 1 | -2.4   | -0.1  | 1 |  |
| -0.0 -0.0                               |   |   |     |     |   |        |       |   |  |
| 63 RPELT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -1.6   | -0.7  | 1 |  |
| -0.0 -0.1                               |   |   |     |     |   |        |       |   |  |
| 64 RPELT102 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -8.4   | -1.8  | 1 |  |
| -0.0 -0.3                               |   |   |     |     |   |        |       |   |  |
| 65 RPACT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -11.3  | -2.1  | 1 |  |
| -0.1 -0.8                               |   |   |     |     |   |        |       |   |  |
| 66 RPACT102 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -8.9   | -1.7  | 1 |  |
| -0.1 -0.6                               |   |   |     |     |   |        |       |   |  |
| 67 RPOCT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -18.3  | -4.6  | 1 |  |
| -0.0 -1.0                               |   |   |     |     |   |        |       |   |  |
| 68 RTABT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -5.1   | -0.3  | 1 |  |
| -0.0 -0.1                               |   |   |     |     |   |        |       |   |  |
| 69 RTABT102 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -4.0   | -0.4  | 1 |  |
| -0.0 -0.1                               |   |   |     |     |   |        |       |   |  |
| 70 RBEXT101 fix                         | 1 | 0 | 0.0 | 0.0 | 1 | -1.5   | -0.3  | 1 |  |
| -0.0 -0.0                               |   |   |     |     |   |        |       |   |  |

#### Modification Factors and Limits

|                    |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Voltage Level [kV] | 400.0       | 220.0       | 110.0       | 24.0        | 22.0        |
| 15.0               |             |             |             |             |             |
| Factors I          | 100.00 nmod | 100.00 nmod | 100.00 nmod | 100.00 nmod | 100.00 nmod |

# 01 UCH - zapojení s můstkem T401 + T403

100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

vlow 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

Voltage Level [kV] 10.0 6.3

Factors I 100.00 nmod 100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod

vlow 100.00 nmod 100.00 nmod

Voltage Level [kV] all

Factors Qupp 100.00 nmod

Qlow 100.00 nmod

## FLAGS

-----  
column1/2

\* = diagnosis indication (discrepancies/limit violations)

E = eliminated node

## Calculated Value

O measurand (balance) U prov. splitted balance

X undefined i invalid

S pseudo measurement V limit violation

## Taps

p Phase shifter transformer

u Tap changer is at low voltage side

A Tap position adjusted

P tap position postprocessed

E Tap position estimated

D Tap position estimated with discrepancy

B Tap position estimated and identified as bad data

X tap position unobservable

## Indicators for Network Membership

-----  
O own

S subjacent own

B boundary

F foreign

R result NR

r to reduce

| =====   |       |          |       |          |       |       |         |         |
|---------|-------|----------|-------|----------|-------|-------|---------|---------|
| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg |       | Ploss    |       | Busbar)  |       |       |         |         |
| (nodes: |       |          |       |          |       |       |         | Ilim/Vn |
| St2 Flg | Qloss |          |       |          |       |       |         |         |
| =====   |       |          |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5507_BAR | -0.5  | 0.8   | 4.5     | 450     |
|         |       | -0.000   |       |          |       |       |         |         |
|         |       | MBHN     | 110kV | SBA1     |       |       |         | 450     |
| APD     |       | 0.113    |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5508_BAR | 12.3  | 3.8   | 62.8    | 450     |
|         |       | -0.001   |       |          |       |       |         |         |
|         |       | MOK_D    | 110kV | SBA1     |       |       |         | 450     |

## 01 UCH - zapojení s můstkem T401 + T403

|       |       |       |       |      |       |      |       |       |
|-------|-------|-------|-------|------|-------|------|-------|-------|
| APD   | 0.045 |       |       |      |       |      |       |       |
| PQnod | O     | MBAR  | 110kV | SBA1 | -11.8 | -4.5 | 118.6 | -3.94 |
|       | elSn  | NetGr |       |      |       |      |       | 110.0 |
| 1     |       |       |       |      |       |      |       |       |

|      |   |      |       |          |       |      |      |     |
|------|---|------|-------|----------|-------|------|------|-----|
| Load | F | MBAR | 110kV | T101LOAD | -11.8 | -4.5 | 61.6 | 210 |
| Load | F | MBAR | 110kV | T102LOAD | 0.0   | 0.0  | 0.0  | 210 |

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| ohlCb   | O  | MWVEDENI | 110kV | 5506_BHN | 23.5  | 5.2   | 117.2   | 450     |
|         |    | -0.016   |       |          |       |       |         |         |
|         |    | MOKC     | 110kV | SBB1     |       |       |         | 450     |
| APD     |    | 0.061    |       |          |       |       |         |         |
| ohlCb   | O  | MWVEDENI | 110kV | 5507_BAR | 0.5   | -0.7  | 4.0     | 450     |
|         |    | -0.000   |       |          |       |       |         |         |
| APD     |    | 0.113    |       |          |       |       |         | 450     |
| Trafo   | O  | MBHN     | 110kV | T101_cmp | -10.5 | -1.9  | 51.8    | 210     |
| 13      |    | -0.051   |       |          |       |       |         |         |
|         |    | MBHN     | 22kV  | SBA      |       |       |         | 210     |
| APD     |    | -0.650   |       |          |       |       |         |         |
| Trafo   | O  | MBHN     | 110kV | T102_cmp | -13.5 | -2.7  | 67.1    | 210     |
| 14      |    | -0.034   |       |          |       |       |         |         |
|         |    | MBHN     | 22kV  | SBB      |       |       |         | 131     |
| APD     |    | -0.589   |       |          |       |       |         |         |

|       |      |       |       |      |     |      |       |       |
|-------|------|-------|-------|------|-----|------|-------|-------|
| PQnod | O    | MBHN  | 110kV | SBA1 | 0.0 | -0.0 | 118.7 | -3.94 |
|       | elSn | NetGr |       |      |     |      |       | 110.0 |
| 1     |      |       |       |      |     |      |       |       |

| Type    | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |       |       |         |         |
| St2 Flg |    | Qloss   |       |          |       |       |         |         |
| Trafo   | O  | MBHN    | 110kV | T101_cmp | 10.4  | 1.2   | 265.5   | 1050    |
| 13      |    | -0.051  |       |          |       |       |         |         |
|         |    | MBHN    | 110kV | SBA1     |       |       |         | 1050    |
| APD     |    | -0.650  |       |          |       |       |         |         |

|       |      |       |      |     |       |      |       |       |
|-------|------|-------|------|-----|-------|------|-------|-------|
| PQnod | O    | MBHN  | 22kV | SBA | -10.4 | -1.2 | 22.83 | -5.72 |
|       | elSn | NetGr |      |     |       |      |       | 22.00 |
| 1     |      |       |      |     |       |      |       |       |

|      |   |      |      |         |       |      |       |      |
|------|---|------|------|---------|-------|------|-------|------|
| Load | O | MBHN | 22kV | SBALOAD | -10.4 | -1.2 | 265.5 | 1706 |
|------|---|------|------|---------|-------|------|-------|------|

# 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|---------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| Trafo<br>14                   | 0         | MBHN<br>-0.034<br>-0.589  | 110kV<br>110kV | T102_cmp<br>SBA1   | 13.5  | 2.1   | 352.7   | 1050<br>656       |
| APD                           |           |                           |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0         | MBHN<br>NetGr             | 22kV           | SBB                | -13.5 | -2.1  | 22.36   | -6.35<br>22.00    |
| 1                             |           |                           |                |                    |       |       |         |                   |
| Load                          | 0         | MBHN                      | 22kV           | SBBLOAD            | -13.5 | -2.1  | 352.7   | 1706              |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss           | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| OhlCb                         | 0         | MWVEDENI<br>-0.005<br>MOKC<br>1.014 | 110kV<br>110kV | _559_CHR<br>SBB1   | 4.1   | -0.1  | 19.9    | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | F         | MCHR<br>NetGr                       | 110kV          | SBA1               | -4.1  | 0.1   | 118.7   | -4.03<br>110.0    |
| 1                             |           |                                     |                |                    |       |       |         |                   |
| Load                          | F         | MCHR                                | 110kV          | T102LOAD           | -4.1  | 0.1   | 19.9    | 84                |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss           | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| OhlCb                         | 0         | MWVEDENI<br>-0.000<br>MOKC<br>0.287 | 110kV<br>110kV | 5518_FA_<br>SBC1   | 1.7   | -0.3  | 8.3     | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| OhlCb                         | 0         | MWVEDENI<br>-0.000<br>MOKC<br>0.287 | 110kV<br>110kV | 5519_FA_<br>SBB1   | 1.7   | -0.3  | 8.3     | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod                         | 0         | MFA                                 | 110kV          | SBA1               | -3.4  | 0.6   | 118.8   | -3.87             |

## 01 UCH - zapojení s můstkem T401 + T403

|         |       |          |       |          |       |       |         |         |
|---------|-------|----------|-------|----------|-------|-------|---------|---------|
| eISn    | NetGr |          |       |          |       |       |         | 110.0   |
| 1       |       |          |       |          |       |       |         |         |
| -----   | ----- | -----    | ----- | -----    | ----- | ----- | -----   | -----   |
| Load    | F     | MFA      | 110kV | T102LOAD | -3.4  | 0.6   | 16.7    | 131     |
| ~~~~~   | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~ | ~~~~~   | ~~~~~   |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg |       | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |       |          |       |          |       |       |         |         |
| St2 Flg |       | Qloss    |       |          |       |       |         |         |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| Trafo   | 0     | MHO      | 110kV | T8_cmp   | -34.3 | -7.2  | 1758.6  | 3637    |
|         |       | -0.098   | 110kV | SBA1     |       |       |         | 3637    |
| APD     |       | MHO      |       |          |       |       |         |         |
|         |       | -2.068   |       |          |       |       |         |         |
| -----   | ----- | -----    | ----- | -----    | ----- | ----- | -----   | -----   |
| PVnod   | 0     | MHO      | 10kV  | SBA3     | 34.3  | 7.2   | 11.51   | 2.75    |
| eISn    |       | NetGr    |       |          |       |       |         | 10.00   |
| 1       |       |          |       |          |       |       |         |         |
| -----   | ----- | -----    | ----- | -----    | ----- | ----- | -----   | -----   |
| Gen     | F     | MHO      | 10kV  | GEN3cmp  | 34.3  | 7.2   | 1758.6  | 3437    |
| ~~~~~   | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~ | ~~~~~   | ~~~~~   |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg |       | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |       |          |       |          |       |       |         |         |
| St2 Flg |       | Qloss    |       |          |       |       |         |         |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| Trafo   | 0     | MHO      | 110kV | T10_cmp  | -26.6 | -6.6  | 1374.0  | 3637    |
|         |       | -0.083   | 110kV | SBA1     |       |       |         | 3637    |
| APD     |       | MHO      |       |          |       |       |         |         |
|         |       | -1.405   |       |          |       |       |         |         |
| -----   | ----- | -----    | ----- | -----    | ----- | ----- | -----   | -----   |
| PVnod   | 0     | MHO      | 10kV  | SBA4     | 26.6  | 6.6   | 11.51   | 2.13    |
| eISn    |       | NetGr    |       |          |       |       |         | 10.00   |
| 1       |       |          |       |          |       |       |         |         |
| -----   | ----- | -----    | ----- | -----    | ----- | ----- | -----   | -----   |
| Gen     | F     | MHO      | 10kV  | GEN.4cmp | 26.6  | 6.6   | 1374.0  | 3437    |
| ~~~~~   | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~    | ~~~~~ | ~~~~~ | ~~~~~   | ~~~~~   |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg |       | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |       |          |       |          |       |       |         |         |
| St2 Flg |       | Qloss    |       |          |       |       |         |         |
| =====   | ===== | =====    | ===== | =====    | ===== | ===== | =====   | =====   |
| oh1Cb   | 0     | MWVEDENI | 110kV | _533_HO_ | -29.9 | -5.6  | 147.2   | 450     |
|         |       | -0.151   | 110kV | SB.A     |       |       |         | 450     |
| APD     |       | MTD      |       |          |       |       |         |         |
|         |       | 0.217    |       |          |       |       |         |         |

|                                         |   |          |       |          |      |      |       |     |
|-----------------------------------------|---|----------|-------|----------|------|------|-------|-----|
| 01 UCH - zapojení s můstkem T401 + T403 |   |          |       |          |      |      |       |     |
| ohlCb                                   | O | MWVEDENI | 110kV | _534_HO_ | -6.4 | 0.7  | 31.2  | 450 |
|                                         |   | -0.007   |       |          |      |      |       |     |
|                                         |   | MWVEDSBV | 110kV | _534_A   |      |      |       | 450 |
| APD                                     |   | 0.655    |       |          |      |      |       |     |
| ohlCb                                   | O | MWVEDENI | 110kV | _535_HO_ | -6.6 | 1.2  | 32.5  | 450 |
|                                         |   | -0.033   |       |          |      |      |       |     |
| APD                                     |   | MSO      | 110kV | SBA1     |      |      |       | 450 |
|                                         |   | 2.390    |       |          |      |      |       |     |
| ohlCb                                   | O | MWVEDENI | 110kV | _536_HO_ | -6.8 | 0.9  | 33.1  | 450 |
|                                         |   | -0.031   |       |          |      |      |       |     |
| APD                                     |   | MSO      | 110kV | SBA1     |      |      |       | 450 |
|                                         |   | 2.402    |       |          |      |      |       |     |
| Trafo                                   | O | MHO      | 110kV | T10_cmp  | 26.5 | 5.2  | 130.5 | 331 |
|                                         |   | -0.083   |       |          |      |      |       |     |
|                                         |   | MHO      | 10kV  | SBA4     |      |      |       | 331 |
| APD                                     |   | -1.405   |       |          |      |      |       |     |
| Trafo                                   | O | MHO      | 110kV | T13_cmp  | -5.9 | -1.7 | 29.7  | 210 |
| 12                                      |   | -0.046   |       |          |      |      |       |     |
|                                         |   | MHO      | 22kV  | SBA      |      |      |       | 210 |
| APD                                     |   | -0.251   |       |          |      |      |       |     |
| Trafo                                   | O | MHO      | 110kV | T8_cmp   | 34.2 | 5.1  | 167.3 | 331 |
|                                         |   | -0.098   |       |          |      |      |       |     |
|                                         |   | MHO      | 10kV  | SBA3     |      |      |       | 331 |
| APD                                     |   | -2.068   |       |          |      |      |       |     |

|       |   |       |       |      |      |      |       |       |
|-------|---|-------|-------|------|------|------|-------|-------|
| PQnod | O | MHO   | 110kV | SBA1 | -5.0 | -5.9 | 119.4 | 0.01  |
| elSn  |   | NetGr |       |      |      |      |       |       |
| 1     |   |       |       |      |      |      |       | 110.0 |

|      |   |     |       |         |      |      |      |    |
|------|---|-----|-------|---------|------|------|------|----|
| Load | O | MHO | 110kV | T12LOAD | -5.0 | -5.9 | 37.6 | 84 |
|------|---|-----|-------|---------|------|------|------|----|

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| ohlCb   | O  | MWVEDENI | 110kV | _541_HO_ | 1.0   | -2.8  | 14.7    | 450     |
|         |    | -0.003   |       |          |       |       |         |         |
|         |    | MKY      | 110kV | SBA1     |       |       |         | 450     |
| APD     |    | 0.893    |       |          |       |       |         |         |
| ohlCb   | O  | MWVEDENI | 110kV | _542_HO_ | 1.9   | 5.5   | 28.9    | 450     |
|         |    | -0.003   |       |          |       |       |         |         |
| APD     |    | MPNV     | 110kV | SBA1     |       |       |         | 450     |
|         |    | 0.348    |       |          |       |       |         |         |
| ohlCb   | O  | MWVEDENI | 110kV | _544_HO_ | -2.9  | -2.7  | 19.6    | 450     |
|         |    | -0.005   |       |          |       |       |         |         |
| APD     |    | MVLM     | 110kV | SBA7     |       |       |         | 450     |
|         |    | 0.910    |       |          |       |       |         |         |

|       |   |       |       |      |     |     |       |       |
|-------|---|-------|-------|------|-----|-----|-------|-------|
| PQnod | O | MHO   | 110kV | SBB1 | 0.0 | 0.0 | 116.3 | -6.80 |
| elSn  |   | NetGr |       |      |     |     |       |       |
| 1     |   |       |       |      |     |     |       | 110.0 |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi |
|---------|----|---------|----|---------|-------|-------|---------|--------|
| St1 Flg |    | Ploss   |    |         |       |       |         |        |

| 01 UCH - zapojení s můstkem T401 + T403 |         |                    |       |                    |         |       |         |        |  |
|-----------------------------------------|---------|--------------------|-------|--------------------|---------|-------|---------|--------|--|
| (nodes:<br>St2 Flg Qloss                | Busbar) |                    |       |                    | Ilim/Vn |       |         |        |  |
| Trafo<br>12                             | 0       | MHO<br>-0.046      | 110kV | T13_cmp            | 5.9     | 1.4   | 148.6   | 1050   |  |
| APD                                     |         | MHO<br>-0.251      | 110kV | SBA1               |         |       |         | 1050   |  |
| PQnod<br>elSn                           | 0       | MHO<br>NetGr       | 22kV  | SBA                | -5.9    | -1.4  | 23.45   | -0.87  |  |
| 1                                       |         |                    |       |                    |         |       |         | 22.00  |  |
| Load                                    | 0       | MHO                | 22kV  | SBALOAD            | -5.9    | -1.4  | 148.6   | 3149   |  |
| ~~~~~                                   |         |                    |       |                    |         |       |         |        |  |
| Type<br>St1 Flg                         | Nm      | Station<br>Ploss   | VL    | Circuit<br>Busbar) | Pcalc   | Qcalc | I/Vcalc | In/Phi |  |
| (nodes:<br>St2 Flg Qloss                | Busbar) |                    |       |                    | Ilim/Vn |       |         |        |  |
| OhlCb                                   | 0       | MWVEDENI<br>-0.210 | 110kV | _550_HUN           | 31.9    | 6.5   | 159.8   | 450    |  |
| APD                                     |         | MOKC<br>0.140      | 110kV | SBC1               |         |       |         | 450    |  |
| Trafo<br>12                             | 0       | MHUN<br>-0.112     | 110kV | T102_cmp           | -31.9   | -6.5  | 159.8   | 210    |  |
| APD                                     |         | MHUN<br>-3.134     | 22kV  | SBA                |         |       |         | 210    |  |
| PQnod<br>elSn                           | 0       | MHUN<br>NetGr      | 110kV | SBA1               | 0.0     | 0.0   | 117.7   | -4.59  |  |
| 1                                       |         |                    |       |                    |         |       |         | 110.0  |  |
| ~~~~~                                   |         |                    |       |                    |         |       |         |        |  |
| Type<br>St1 Flg                         | Nm      | Station<br>Ploss   | VL    | Circuit<br>Busbar) | Pcalc   | Qcalc | I/Vcalc | In/Phi |  |
| (nodes:<br>St2 Flg Qloss                | Busbar) |                    |       |                    | Ilim/Vn |       |         |        |  |
| Trafo<br>12                             | 0       | MHUN<br>-0.112     | 110kV | T102_cmp           | 31.8    | 3.4   | 808.9   | 1050   |  |
| APD                                     |         | MHUN<br>-3.134     | 110kV | SBA1               |         |       |         | 1050   |  |
| PQnod<br>elSn                           | 0       | MHUN<br>NetGr      | 22kV  | SBA                | -31.8   | -3.4  | 22.83   | -9.86  |  |
| 1                                       |         |                    |       |                    |         |       |         | 22.00  |  |
| Load                                    | 0       | MHUN               | 22kV  | SBALOAD            | -14.5   | -1.0  | 367.6   | 2099   |  |
| Load                                    | 0       | MHUN               | 22kV  | SBBLOAD            | -17.3   | -2.4  | 441.8   | 2099   |  |
| ~~~~~                                   |         |                    |       |                    |         |       |         |        |  |

## 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| OhlCb                         | 0                | MWVEDENI<br>-0.028        | 110kV | 5594_KNC           | 9.2   | 2.3   | 47.8    | 450               |
| APD                           |                  | MPRT<br>0.943             | 110kV | SBA                |       |       |         | 450               |
| Trafo<br>12                   | 0                | MKNC<br>-0.029            | 110kV | T102_cmp           | -9.2  | -2.3  | 47.8    | 131               |
| APD                           |                  | MKNC<br>-0.454            | 22kV  | SBA1               |       |       |         | 131               |
| PQnod<br>elSn                 | 0                | MKNC<br>NetGr             | 110kV | SBA1               | -0.0  | -0.0  | 114.7   | -7.77             |
| 1                             |                  |                           |       |                    |       |       |         | 110.0             |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL           | Circuit<br>Busbar)   | Pcalc       | Qcalc        | I/Vcalc       | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|--------------|----------------------|-------------|--------------|---------------|-------------------|
| Trafo<br>12                   | 0                | MKNC<br>-0.029            | 110kV        | T102_cmp             | 9.2         | 1.9          | 242.1         | 656               |
| APD                           |                  | MKNC<br>-0.454            | 110kV        | SBA1                 |             |              |               | 656               |
| PQnod<br>elSn                 | 0                | MKNC<br>NetGr             | 22kV         | SBA1                 | -9.2        | -1.9         | 22.37         | -10.35            |
| 1                             |                  |                           |              |                      |             |              |               | 22.00             |
| Load<br>Load                  | 0<br>0           | MKNC<br>MKNC              | 22kV<br>22kV | SBA1LOAD<br>SBA2LOAD | -9.6<br>0.4 | -0.9<br>-1.0 | 248.9<br>26.7 | 1312<br>1312      |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| OhlCb                         | 0                | MWVEDENI<br>-0.308        | 110kV | _546_KUN           | 32.7  | -3.1  | 160.2   | 450               |
| APD                           |                  | MOKC<br>0.258             | 110kV | SBA1               |       |       |         | 450               |
| OhlCb                         | 0                | MWVEDENI<br>-0.033        | 110kV | 5540_KUN           | -21.0 | 5.8   | 106.4   | 450               |
| APD                           |                  | MNA_D<br>0.185            | 110kV | SBA1               |       |       |         | 450               |
| Trafo<br>13                   | F                | MKUN<br>-0.056            | 110kV | T101_cmp           | -11.7 | -2.7  | 58.4    | 210               |

|                                         |    |                |       |          |       |       |         |         |
|-----------------------------------------|----|----------------|-------|----------|-------|-------|---------|---------|
| 01 UCH - zapojení s můstkem T401 + T403 |    |                |       |          |       |       |         |         |
| APD                                     |    | MKUN<br>-0.518 | 22kV  | SBB1     |       |       |         | 131     |
| -----                                   |    |                |       |          |       |       |         |         |
| PQnod                                   | O  | MKUN           | 110kV | SBA1     | -0.0  | 0.0   | 118.2   | -5.52   |
| elSn                                    |    | NetGr          |       |          |       |       |         | 110.0   |
| 1                                       |    |                |       |          |       |       |         |         |
| ~~~~~                                   |    |                |       |          |       |       |         |         |
| =====                                   |    |                |       |          |       |       |         |         |
| Type                                    | Nm | Station        | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg                                 |    | Ploss          |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes:                                 |    |                |       |          |       |       |         |         |
| St2 Flg                                 |    | Qloss          |       |          |       |       |         |         |
| =====                                   |    |                |       |          |       |       |         |         |
| Trafo                                   | F  | MKUN           | 110kV | T101_cmp | 11.6  | 2.2   | 300.4   | 1050    |
| 13                                      |    | -0.056         |       |          |       |       |         |         |
| APD                                     |    | MKUN           | 110kV | SBA1     |       |       |         | 656     |
|                                         |    | -0.518         |       |          |       |       |         |         |
| -----                                   |    |                |       |          |       |       |         |         |
| PQnod                                   | O  | MKUN           | 22kV  | SBB1     | -11.6 | -2.2  | 22.69   | -7.42   |
| elSn                                    |    | NetGr          |       |          |       |       |         | 22.00   |
| 1                                       |    |                |       |          |       |       |         |         |
| -----                                   |    |                |       |          |       |       |         |         |
| Load                                    | O  | MKUN           | 22kV  | SBB1LOAD | -5.8  | -1.1  | 150.2   | 1706    |
| Load                                    | O  | MKUN           | 22kV  | SBB2LOAD | -5.8  | -1.1  | 150.2   | 1706    |
| ~~~~~                                   |    |                |       |          |       |       |         |         |
| =====                                   |    |                |       |          |       |       |         |         |
| Type                                    | Nm | Station        | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg                                 |    | Ploss          |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes:                                 |    |                |       |          |       |       |         |         |
| St2 Flg                                 |    | Qloss          |       |          |       |       |         |         |
| =====                                   |    |                |       |          |       |       |         |         |
| OhlCb                                   | O  | MWVEDENI       | 110kV | _541_HO_ | -1.0  | 3.7   | 19.0    | 450     |
|                                         |    | -0.003         |       |          |       |       |         |         |
| APD                                     |    | MHO            | 110kV | SBB1     |       |       |         | 450     |
|                                         |    | 0.893          |       |          |       |       |         |         |
| OhlCb                                   | O  | MWVEDENI       | 110kV | _545_KY_ | 37.6  | 4.5   | 188.2   | 450     |
|                                         |    | -0.716         |       |          |       |       |         |         |
| APD                                     |    | MOKC           | 110kV | SBA1     |       |       |         | 450     |
|                                         |    | -0.150         |       |          |       |       |         |         |
| Trafo                                   | O  | MKY            | 110kV | T101_cmp | -23.8 | -5.7  | 121.5   | 210     |
| 13                                      |    | -0.121         |       |          |       |       |         |         |
| APD                                     |    | MKY            | 22kV  | SBA1     |       |       |         | 210     |
|                                         |    | -1.922         |       |          |       |       |         |         |
| Trafo                                   | O  | MKY            | 110kV | T102_cmp | -12.8 | -2.5  | 65.0    | 210     |
| 13                                      |    | -0.033         |       |          |       |       |         |         |
| APD                                     |    | MKY            | 22kV  | SBB1     |       |       |         | 210     |
|                                         |    | -0.549         |       |          |       |       |         |         |
| -----                                   |    |                |       |          |       |       |         |         |
| PQnod                                   | O  | MKY            | 110kV | SBA1     | -0.0  | -0.0  | 116.1   | -6.71   |
| elSn                                    |    | NetGr          |       |          |       |       |         | 110.0   |
| 1                                       |    |                |       |          |       |       |         |         |
| ~~~~~                                   |    |                |       |          |       |       |         |         |

## 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0         | MKY<br>-0.000             | 22kV  | V352               | 0.5   | -0.2  | 14.5    | 500               |
| APD                           |           | MKY<br>0.002              | 22kV  | SBA1               |       |       |         | 500               |
| oh1Cb                         | 0         | MKY<br>-0.000             | 22kV  | V353               | 0.5   | -0.2  | 14.5    | 500               |
| APD                           |           | MKY<br>0.002              | 22kV  | SBA1               |       |       |         | 500               |
| Trafo                         | 0         | MKY<br>-0.026             | 22kV  | BAT01cmp           | -1.0  | 0.4   | 29.1    | 241               |
| APD                           |           | MKY<br>-0.052             | 6kV   | SBV.T01            |       |       |         | 241               |
| PQnod                         | 0         | MKY                       | 22kV  | SBA                | 0.0   | -0.0  | 22.08   | -10.75            |
| e1Sn                          |           | NetGr                     |       |                    |       |       |         | 22.00             |
| 1                             |           |                           |       |                    |       |       |         |                   |
| ~~~~~                         |           |                           |       |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| oh1Cb                         | 0         | MKY<br>-0.000             | 22kV  | V352               | -0.5  | 0.2   | 14.6    | 500               |
| APD                           |           | MKY<br>0.002              | 22kV  | SBA                |       |       |         | 500               |
| oh1Cb                         | 0         | MKY<br>-0.000             | 22kV  | V353               | -0.5  | 0.2   | 14.6    | 500               |
| APD                           |           | MKY<br>0.002              | 22kV  | SBA                |       |       |         | 500               |
| Trafo                         | 0         | MKY<br>-0.121             | 110kV | T101_cmp           | 23.6  | 3.8   | 625.7   | 1050              |
| APD                           |           | MKY<br>-1.922             | 110kV | SBA1               |       |       |         | 1050              |
| PQnod                         | 0         | MKY                       | 22kV  | SBA1               | -22.6 | -4.2  | 22.08   | -10.71            |
| e1Sn                          |           | NetGr                     |       |                    |       |       |         | 22.00             |
| 1                             |           |                           |       |                    |       |       |         |                   |
| Load                          | 0         | MKY                       | 22kV  | SBA1LOAD           | -11.3 | -2.1  | 300.5   | 2099              |
| Load                          | 0         | MKY                       | 22kV  | SBA2LOAD           | -11.3 | -2.1  | 300.5   | 2099              |
| ~~~~~                         |           |                           |       |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |

01 UCH - zapojení s můstkem T401 + T403

|       |   |        |      |      |     |     |     |     |
|-------|---|--------|------|------|-----|-----|-----|-----|
| ohlCb | 0 | MKY    | 22kV | V19  | 0.0 | 0.0 | 0.0 | 500 |
|       |   | -0.000 | 22kV | SBB1 |     |     |     | 500 |
| APD   |   | 0.051  |      |      |     |     |     |     |

|       |   |       |      |     |     |      |       |       |
|-------|---|-------|------|-----|-----|------|-------|-------|
| PQnod | 0 | MKY   | 22kV | SBB | 0.0 | -0.0 | 22.30 | -8.98 |
| eISn  |   | NetGr |      |     |     |      |       | 22.00 |
| 1     |   |       |      |     |     |      |       |       |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| ohlCb | 0 | MKY    | 22kV  | V19      | -0.0 | 0.1 | 1.3   | 500  |
|       |   | -0.000 | 22kV  | SBB      |      |     |       | 500  |
| APD   |   | 0.051  | 110kV | T102_cmp | 12.8 | 1.9 | 335.3 | 1050 |
| Trafo | 0 | MKY    | 110kV | SBA1     |      |     |       | 1050 |
| 13    |   | -0.033 |       |          |      |     |       |      |
| APD   |   | -0.549 |       |          |      |     |       |      |

|       |   |       |      |      |       |      |       |       |
|-------|---|-------|------|------|-------|------|-------|-------|
| PQnod | 0 | MKY   | 22kV | SBB1 | -12.8 | -2.0 | 22.30 | -8.98 |
| eISn  |   | NetGr |      |      |       |      |       | 22.00 |
| 1     |   |       |      |      |       |      |       |       |

|      |   |     |      |          |      |      |       |      |
|------|---|-----|------|----------|------|------|-------|------|
| Load | 0 | MKY | 22kV | SBB1LOAD | -6.4 | -1.0 | 167.7 | 2099 |
| Load | 0 | MKY | 22kV | SBB2LOAD | -6.4 | -1.0 | 167.7 | 2099 |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |        |     |          |     |      |     |     |
|-------|---|--------|-----|----------|-----|------|-----|-----|
| Trafo | 0 | MKY    | 6kV | B1T01cmp | 0.0 | -0.0 | 0.0 | 999 |
|       |   | -0.025 | 6kV | SBV.T01  |     |      |     | 999 |
| APD   |   | -0.049 |     |          |     |      |     |     |

|       |   |       |     |          |      |     |      |        |
|-------|---|-------|-----|----------|------|-----|------|--------|
| PQnod | 0 | MKY   | 6kV | B1T01cmp | -0.0 | 0.0 | 6.35 | -11.40 |
| eISn  |   | NetGr |     |          |      |     |      | 6.30   |
| 1     |   |       |     |          |      |     |      |        |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |

## 01 UCH - zapojení s můstkem T401 + T403

| St2   | Flg | Qloss         |      |          |      |      |       |        |
|-------|-----|---------------|------|----------|------|------|-------|--------|
| Trafo | 0   | MKY<br>-0.026 | 22kV | BAT01cmp | 1.0  | -0.5 | 100.9 | 843    |
| APD   |     | MKY<br>-0.052 | 22kV | SBA      |      |      |       | 843    |
| Trafo | 0   | MKY<br>-0.025 | 6kV  | B1T01cmp | -0.0 | -0.0 | 5.0   | 999    |
| APD   |     | MKY<br>-0.049 | 6kV  | B1T01cmp |      |      |       | 999    |
| Trafo | 0   | MKY<br>-0.026 | 6kV  | B3T01cmp | -1.0 | 0.5  | 100.8 | 1842   |
| APD   |     | MKY<br>-0.111 | 6kV  | SBV.TG3  |      |      |       | 1842   |
| PQnod | 0   | MKY           | 6kV  | SBV.T01  | 0.0  | 0.0  | 6.35  | -11.40 |
| elsn  |     | NetGr         |      |          |      |      |       | 6.30   |

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| Type    | Nm  | Station       | VL  | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-----|---------------|-----|----------|-------|-------|---------|---------|
| St1     | Flg | Ploss         |     | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |     |               |     |          |       |       |         |         |
| St2     | Flg | Qloss         |     |          |       |       |         |         |
| Trafo   | 0   | MKY<br>-0.026 | 6kV | B3T01cmp | 1.0   | -0.6  | 103.4   | 1842    |
| APD     |     | MKY<br>-0.111 | 6kV | SBV.T01  |       |       |         | 1842    |
| PVnod   | 0   | MKY           | 6kV | SBV.TG3  | -1.0  | 0.6   | 6.38    | -11.90  |
| elsn    |     | NetGr         |     |          |       |       |         | 6.30    |

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|     |   |     |     |          |      |     |       |     |
|-----|---|-----|-----|----------|------|-----|-------|-----|
| Gen | F | MKY | 6kV | GEN.3cmp | -1.0 | 0.6 | 103.4 | 999 |
|-----|---|-----|-----|----------|------|-----|-------|-----|

| Type    | Nm  | Station            | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-----|--------------------|-------|----------|-------|-------|---------|---------|
| St1     | Flg | Ploss              |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |     |                    |       |          |       |       |         |         |
| St2     | Flg | Qloss              |       |          |       |       |         |         |
| OhlCb   | 0   | MWVEDENI<br>-0.001 | 110kV | 5573_MAD | 1.9   | 1.8   | 12.7    | 450     |
| APD     |     | MSVI<br>0.035      | 110kV | SBV.T114 |       |       |         | 450     |
| OhlCb   | 0   | MWVEDENI<br>-0.025 | 110kV | 5501_MAD | 15.8  | 1.3   | 77.3    | 450     |
| APD     |     | MOKC<br>0.242      | 110kV | SBB1     |       |       |         | 450     |
| OhlCb   | 0   | MWVEDENI<br>-0.012 | 110kV | _567_MAD | -5.2  | -0.1  | 25.4    | 450     |
| APD     |     | MVST<br>1.192      | 110kV | SBB      |       |       |         | 450     |
| OhlCb   | 0   | MWVEDENI           | 110kV | 5509_MAD | 13.6  | 1.7   | 66.7    | 450     |

01 UCH - zapojení s můstkem T401 + T403

|     |   |      |        |       |        |       |      |       |      |
|-----|---|------|--------|-------|--------|-------|------|-------|------|
| APD |   |      | -0.014 | 110kV | SBA1   |       |      |       | 450  |
| BBC | 0 | MMLE | 0.207  | 110kV | SP1cmp | -26.1 | -4.5 | 129.2 | 9999 |
|     |   | MMAD | 0.000  | 110kV | SBB    |       |      |       | 9999 |
| APD |   | MMAD | 0.000  |       |        |       |      |       |      |

|       |   |       |       |     |     |     |       |       |
|-------|---|-------|-------|-----|-----|-----|-------|-------|
| PQnod | 0 | MMAD  | 110kV | SBA | 0.0 | 0.0 | 118.6 | -4.04 |
| eISn  |   | NetGr |       |     |     |     |       |       |
|       |   |       |       |     |     |     |       | 110.0 |

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| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    | Qloss    |       |          |       |       |         |         |
| St2 Flg |    |          |       |          |       |       |         |         |
| ohlcb   | 0  | MWVEDENI | 110kV | 5572_MAD | 3.0   | 2.8   | 19.8    | 450     |
|         |    | -0.001   |       |          |       |       |         |         |
|         |    | MSVI     | 110kV | SBV.T115 |       |       |         | 450     |
| APD     |    | 0.031    |       |          |       |       |         |         |
| ohlcb   | 0  | MWVEDENI | 110kV | 5574_MAD | -19.2 | -4.4  | 96.0    | 450     |
|         |    | -0.071   |       |          |       |       |         |         |
|         |    | MSLU     | 110kV | SBA1     |       |       |         | 450     |
| APD     |    | 0.408    |       |          |       |       |         |         |
| ohlcb   | 0  | MWVEDENI | 110kV | 5502_MAD | 15.8  | 1.3   | 77.3    | 450     |
|         |    | -0.025   |       |          |       |       |         |         |
|         |    | MOKC     | 110kV | SBB1     |       |       |         | 450     |
| APD     |    | 0.242    |       |          |       |       |         |         |
| ohlcb   | 0  | MWVEDENI | 110kV | 5503_MAD | 16.3  | 1.8   | 80.1    | 450     |
|         |    | -0.024   |       |          |       |       |         |         |
|         |    | MOKC     | 110kV | SBC1     |       |       |         | 450     |
| APD     |    | 0.230    |       |          |       |       |         |         |
| BBC     | 0  | MMAD     | 110kV | SP1cmp   | 26.1  | 4.5   | 129.2   | 9999    |
|         |    | 0.000    |       |          |       |       |         |         |
|         |    | MMAD     | 110kV | SBA      |       |       |         | 9999    |
| APD     |    | 0.000    |       |          |       |       |         |         |
| Trafo   | 0  | MMAD     | 110kV | T101_cmp | -20.4 | -3.0  | 100.3   | 131     |
| 13      |    | -0.080   |       |          |       |       |         |         |
|         |    | MMAD     | 22kV  | SBA      |       |       |         | 210     |
| APD     |    | -2.024   |       |          |       |       |         |         |
| Trafo   | 0  | MMAD     | 110kV | T102_cmp | -21.7 | -2.9  | 106.6   | 210     |
| 13      |    | -0.099   |       |          |       |       |         |         |
|         |    | MMAD     | 22kV  | SBB3     |       |       |         | 210     |
| APD     |    | -1.740   |       |          |       |       |         |         |

|         |   |       |       |     |     |     |       |       |
|---------|---|-------|-------|-----|-----|-----|-------|-------|
| E PQnod | 0 | MMAD  | 110kV | SBB | 0.0 | 0.0 | 118.6 | -4.04 |
| eISn    |   | NetGr |       |     |     |     |       |       |
|         |   |       |       |     |     |     |       | 110.0 |

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| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    | Qloss   |    |         |       |       |         |         |
| St2 Flg |    |         |    |         |       |       |         |         |

|                                         |    |          |       |          |       |       |         |         |
|-----------------------------------------|----|----------|-------|----------|-------|-------|---------|---------|
| 01 UCH - zapojení s můstkem T401 + T403 |    |          |       |          |       |       |         |         |
| Trafo 13                                | 0  | MMAD     | 110kV | T101_cmp | 20.3  | 1.0   | 517.8   | 656     |
| APD                                     |    | MMAD     | 110kV | SBB      |       |       |         | 1050    |
|                                         |    | -2.024   |       |          |       |       |         |         |
| -----                                   |    |          |       |          |       |       |         |         |
| PQnod                                   | 0  | MMAD     | 22kV  | SBA      | -20.3 | -1.0  | 22.66   | -9.66   |
| elSn                                    |    | NetGr    |       |          |       |       |         |         |
| 1                                       |    |          |       |          |       |       |         | 22.00   |
| -----                                   |    |          |       |          |       |       |         |         |
| Load                                    | 0  | MMAD     | 22kV  | SBALOAD  | -20.3 | -1.0  | 517.8   | 2756    |
| ~~~~~                                   |    |          |       |          |       |       |         |         |
| =====                                   |    |          |       |          |       |       |         |         |
| Type                                    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg                                 |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes:                                 |    |          |       |          |       |       |         |         |
| St2 Flg                                 |    | Qloss    |       |          |       |       |         |         |
| =====                                   |    |          |       |          |       |       |         |         |
| Trafo 13                                | 0  | MMAD     | 110kV | T102_cmp | 21.6  | 1.2   | 549.1   | 1050    |
| APD                                     |    | MMAD     | 110kV | SBB      |       |       |         | 1050    |
|                                         |    | -1.740   |       |          |       |       |         |         |
| -----                                   |    |          |       |          |       |       |         |         |
| PQnod                                   | 0  | MMAD     | 22kV  | SBB3     | -21.6 | -1.2  | 22.75   | -7.76   |
| elSn                                    |    | NetGr    |       |          |       |       |         |         |
| 1                                       |    |          |       |          |       |       |         | 22.00   |
| -----                                   |    |          |       |          |       |       |         |         |
| Load                                    | 0  | MMAD     | 22kV  | SBB1LOAD | -10.8 | -0.6  | 274.6   | 2756    |
| Load                                    | 0  | MMAD     | 22kV  | SBB2LOAD | -10.8 | -0.6  | 274.6   | 2756    |
| ~~~~~                                   |    |          |       |          |       |       |         |         |
| =====                                   |    |          |       |          |       |       |         |         |
| Type                                    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg                                 |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes:                                 |    |          |       |          |       |       |         |         |
| St2 Flg                                 |    | Qloss    |       |          |       |       |         |         |
| =====                                   |    |          |       |          |       |       |         |         |
| ohlCb                                   | 0  | MWVEDENI | 110kV | 5504_MLE | 21.2  | 2.6   | 103.7   | 450     |
| APD                                     |    | -0.007   | 110kV | SBC1     |       |       |         | 450     |
|                                         |    | MOKC     |       |          |       |       |         |         |
| ohlCb                                   | 0  | 0.043    | 110kV | 5509_MAD | -13.6 | -1.5  | 66.6    | 450     |
| APD                                     |    | MWVEDENI | 110kV | SBA      |       |       |         | 450     |
|                                         |    | -0.014   |       |          |       |       |         |         |
|                                         |    | MMAD     |       |          |       |       |         |         |
|                                         |    | 0.207    |       |          |       |       |         |         |
| -----                                   |    |          |       |          |       |       |         |         |
| PQnod                                   | 0  | MMLE     | 110kV | SBA1     | -7.5  | -1.1  | 118.7   | -3.91   |
| elSn                                    |    | NetGr    |       |          |       |       |         |         |
| 1                                       |    |          |       |          |       |       |         | 110.0   |
| -----                                   |    |          |       |          |       |       |         |         |
| Load                                    | F  | MMLE     | 110kV | T101LOAD | -7.5  | -1.1  | 37.1    | 131     |
| ~~~~~                                   |    |          |       |          |       |       |         |         |

## 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| ohlCb                         | 0                | MWVEDENI<br>-0.172        | 110kV | _547_NAD           | -20.2 | -6.4  | 103.3   | 450               |
| APD                           |                  | MPNV<br>0.911             | 110kV | SBA1               |       |       |         | 450               |
| ohlCb                         | 0                | MWVEDENI<br>-0.033        | 110kV | 5540_KUN           | 21.0  | -5.6  | 106.0   | 450               |
| APD                           |                  | MKUN<br>0.185             | 110kV | SBA1               |       |       |         | 450               |
| PQnod                         | 0                | MNA_D                     | 110kV | SBA1               | -0.8  | 12.0  | 118.2   | -5.79             |
| elSn                          |                  | NetGr                     |       |                    |       |       |         | 110.0             |
| 1                             |                  |                           |       |                    |       |       |         |                   |
| Load                          | F                | MNA_D                     | 110kV | T102LOAD           | -0.9  | 6.8   | 33.5    | 52                |
| Load                          | F                | MNA_D                     | 110kV | T1LOAD             | 0.1   | -6.8  | 33.2    | 52                |
| ~~~~~                         |                  |                           |       |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| ohlCb                         | 0                | MWVEDENI<br>-0.449        | 110kV | 5575_NZD           | 34.2  | 5.9   | 171.8   | 450               |
| APD                           |                  | MOKC<br>0.132             | 110kV | SBB1               |       |       |         | 450               |
| ohlCb                         | 0                | MWVEDENI<br>-0.237        | 110kV | 5577_NZD           | -32.8 | -4.6  | 164.2   | 450               |
| APD                           |                  | MPRT<br>0.113             | 110kV | SBA                |       |       |         | 450               |
| PQnod                         | 0                | MNZ_D                     | 110kV | SBA1               | -1.3  | -1.3  | 116.5   | -6.10             |
| elSn                          |                  | NetGr                     |       |                    |       |       |         | 110.0             |
| 1                             |                  |                           |       |                    |       |       |         |                   |
| Load                          | F                | MNZ_D                     | 110kV | T101LOAD           | -1.2  | -0.6  | 6.5     | 52                |
| Load                          | F                | MNZ_D                     | 110kV | T111LOAD           | -0.2  | -0.7  | 3.7     | 52                |
| ~~~~~                         |                  |                           |       |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| Trafo                         | F                | MOKC<br>-0.002            | 10kV  | T401_cmp           | 8.9   | -8.3  | 686.5   | 5774              |
|                               |                  | MOKC                      | 110kV | SBV.T401           |       |       |         | 5774              |

## 01 UCH - zapojení s můstkem T401 + T403

APD -0.426

| PQnod | O     | MOKC | 10kV | SBT401 | -8.9 | 8.3 | 10.24 | -10.33 |
|-------|-------|------|------|--------|------|-----|-------|--------|
| elSn  | NetGr |      |      |        |      |     |       |        |
| 1     |       |      |      |        |      |     |       | 10.00  |

| Load | O | MOKC | 10kV | SBT401LO | -8.9 | 8.3 | 686.5 | 5774 |
|------|---|------|------|----------|------|-----|-------|------|
|      |   |      |      |          |      |     |       |      |

| Type            | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg         | Ploss |         |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | F | MOKC   | 10kV  | T402_cmp | -2.6 | 0.9 | 154.7 | 5774 |
|       |   | -0.000 |       |          |      |     |       |      |
|       |   | MOKC   | 110kV | SBV.T402 |      |     |       | 5774 |
|       |   | -0.022 |       |          |      |     |       |      |

APD

| PQnod | O     | MOKC | 10kV | SBT402 | 2.6 | -0.9 | 10.23 | -11.15 |
|-------|-------|------|------|--------|-----|------|-------|--------|
| elSn  | NetGr |      |      |        |     |      |       |        |
| 1     |       |      |      |        |     |      |       | 10.00  |

| Load | O | MOKC | 10kV | SBT402LO | 2.6 | -0.9 | 154.7 | 5774 |
|------|---|------|------|----------|-----|------|-------|------|
|      |   |      |      |          |     |      |       |      |

| Type            | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg         | Ploss |         |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |        |       |          |     |     |     |      |
|-------|---|--------|-------|----------|-----|-----|-----|------|
| Trafo | F | MOKC   | 10kV  | T403_cmp | 0.0 | 0.0 | 0.0 | 5774 |
|       |   | 0.000  |       |          |     |     |     |      |
|       |   | MOKC   | 110kV | SBV.T403 |     |     |     | 5774 |
|       |   | -0.000 |       |          |     |     |     |      |

APD

| PQnod | F     | MOKC | 10kV | T403_cmp | -0.0 | 0.0 | 10.42 | -9.82 |
|-------|-------|------|------|----------|------|-----|-------|-------|
| elSn  | NetGr |      |      |          |      |     |       |       |
| 1     |       |      |      |          |      |     |       | 10.00 |

| Type            | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg         | Ploss |         |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |          |       |          |       |      |       |     |
|-------|---|----------|-------|----------|-------|------|-------|-----|
| ohlCb | O | MWVEDENI | 110kV | 5570_OKC | -48.9 | -9.8 | 242.1 | 450 |
|       |   | -0.638   |       |          |       |      |       |     |
|       |   | MUBR     | 110kV | SBB      |       |      |       | 450 |

## 01 UCH - zapojení s můstkem T401 + T403

|       |       |      |                    |       |          |       |      |       |       |
|-------|-------|------|--------------------|-------|----------|-------|------|-------|-------|
| APD   | OhlCb | O    | -0.828<br>MWVEDENI | 110kV | 5571_OKC | -48.9 | -9.8 | 242.1 | 450   |
|       |       |      | -0.638<br>MUBR     | 110kV | SBB      |       |      |       | 450   |
| APD   | OhlCb | O    | -0.828<br>MWVEDENI | 110kV | _545_KY_ | -38.3 | -4.7 | 187.1 | 450   |
|       |       |      | -0.716<br>MKY      | 110kV | SBA1     |       |      |       | 450   |
| APD   | OhlCb | O    | -0.150<br>MWVEDENI | 110kV | _546_KUN | -33.0 | 3.3  | 160.8 | 450   |
|       |       |      | -0.308<br>MKUN     | 110kV | SBA1     |       |      |       | 450   |
| APD   | Trafo | F    | 0.258<br>MOKC      | 110kV | T402_cmp | 169.1 | 21.0 | 826.8 | 1837  |
|       |       |      | -0.052<br>MOKC     | 110kV | SBV.T402 |       |      |       | 1837  |
| APD   |       |      | 23.014             |       |          |       |      |       |       |
| ----- |       |      |                    |       |          |       |      |       |       |
|       | PQnod | O    | MOKC               | 110kV | SBA1     | -0.0  | -0.0 | 119.0 | -3.83 |
|       |       | elSn | NetGr              |       |          |       |      |       |       |
|       |       |      |                    |       |          |       |      |       | 110.0 |
|       | 1     |      |                    |       |          |       |      |       |       |
| ~~~~~ |       |      |                    |       |          |       |      |       |       |
| ~~~~~ |       |      |                    |       |          |       |      |       |       |

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| =====   |    |          |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5575_NZD | -34.6 | -5.8  | 170.5   | 450     |
|         |    | -0.449   |       |          |       |       |         |         |
|         |    | MNZ_D    | 110kv | SBA1     |       |       |         | 450     |
| APD     |    | 0.132    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5501_MAD | -15.9 | -1.0  | 77.2    | 450     |
|         |    | -0.025   |       |          |       |       |         |         |
|         |    | MMAD     | 110kv | SBA      |       |       |         | 450     |
| APD     |    | 0.242    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5502_MAD | -15.9 | -1.0  | 77.2    | 450     |
|         |    | -0.025   |       |          |       |       |         |         |
|         |    | MMAD     | 110kv | SBB      |       |       |         | 450     |
| APD     |    | 0.242    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5506_BHN | -23.5 | -5.1  | 117.1   | 450     |
|         |    | -0.016   |       |          |       |       |         |         |
|         |    | MBHN     | 110kv | SBA1     |       |       |         | 450     |
| APD     |    | 0.061    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | _559_CHR | -4.1  | 1.1   | 20.7    | 450     |
|         |    | -0.005   |       |          |       |       |         |         |
|         |    | MCHR     | 110kv | SBA1     |       |       |         | 450     |
| APD     |    | 1.014    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | _573_OKC | -15.8 | -1.9  | 77.2    | 450     |
|         |    | -0.075   |       |          |       |       |         |         |
|         |    | MRYC     | 110kv | SBA1     |       |       |         | 450     |
| APD     |    | 1.034    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5517_OKC | -19.4 | -3.3  | 95.8    | 420     |
|         |    | -0.106   |       |          |       |       |         |         |
|         |    | MUHD     | 110kv | SBA1     |       |       |         | 420     |
| APD     |    | 0.576    |       |          |       |       |         |         |
| OhlCb   | O  | MWVEDENI | 110kv | 5519_FA_ | -1.7  | 0.6   | 8.7     | 450     |
|         |    | -0.000   |       |          |       |       |         |         |
|         |    | MFA      | 110kv | SBA1     |       |       |         | 450     |
| APD     |    | 0.287    |       |          |       |       |         |         |
| BBC     | O  | MOKC     | 110kv | KP1cmp   | -27.0 | 24.8  | 178.2   | 9999    |
|         |    | 0.000    |       |          |       |       |         |         |
|         |    | MOKC     | 110kv | SBC1     |       |       |         | 9999    |

|                                         |       |         |                                           |         |          |       |         |         |       |
|-----------------------------------------|-------|---------|-------------------------------------------|---------|----------|-------|---------|---------|-------|
| 01 UCH - zapojení s můstkem T401 + T403 |       |         |                                           |         |          |       |         |         |       |
| APD                                     | Trafo | F       | 0.000<br>MOKC<br>-0.043<br>MOKC<br>16.643 | 110kv   | T403_cmp | 157.9 | -8.4    | 768.4   | 1837  |
|                                         |       |         |                                           | 110kv   | SBV.T403 |       |         |         | 1837  |
| APD                                     |       |         |                                           |         |          |       |         |         |       |
| -----                                   |       |         |                                           |         |          |       |         |         |       |
|                                         | PQnod | O       | MOKC                                      | 110kv   | SBB1     | 0.0   | 0.0     | 118.8   | -3.85 |
|                                         |       | eISn    | NetGr                                     |         |          |       |         |         | 110.0 |
|                                         | 1     |         |                                           |         |          |       |         |         |       |
| ~~~~~                                   |       |         |                                           |         |          |       |         |         |       |
| ~~~~~                                   |       |         |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |
| Type                                    | Nm    | Station | VL                                        | Circuit | Pcalc    | Qcalc | I/Vcalc | In/Phi  |       |
| St1 Flg                                 |       | Ploss   |                                           | Busbar) |          |       |         | Ilim/Vn |       |
| (nodes:                                 |       |         |                                           |         |          |       |         |         |       |
| St2 Flg                                 |       | Qloss   |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5576_OKC | -44.5 | -7.0    | 218.9   | 450   |
|                                         |       |         | -0.396                                    |         |          |       |         |         |       |
|                                         |       |         | MZDO                                      | 110kv   | SBA1     |       |         |         | 450   |
| APD                                     |       |         | -0.421                                    |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5503_MAD | -16.4 | -1.6    | 79.9    | 450   |
|                                         |       |         | -0.024                                    |         |          |       |         |         |       |
|                                         |       |         | MMAD                                      | 110kv   | SBB      |       |         |         | 450   |
| APD                                     |       |         | 0.230                                     |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5504_MLE | -21.2 | -2.5    | 103.6   | 450   |
|                                         |       |         | -0.007                                    |         |          |       |         |         |       |
|                                         |       |         | MMLE                                      | 110kv   | SBA1     |       |         |         | 450   |
| APD                                     |       |         | 0.043                                     |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5505_OKC | -13.6 | -3.4    | 68.2    | 450   |
|                                         |       |         | -0.006                                    |         |          |       |         |         |       |
|                                         |       |         | MOK_D                                     | 110kv   | SBA1     |       |         |         | 450   |
| APD                                     |       |         | 0.106                                     |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | _550_HUN | -32.1 | -6.4    | 159.2   | 450   |
|                                         |       |         | -0.210                                    |         |          |       |         |         |       |
|                                         |       |         | MHUN                                      | 110kv   | SBA1     |       |         |         | 450   |
| APD                                     |       |         | 0.140                                     |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5516_OKC | -19.4 | -3.3    | 95.8    | 420   |
|                                         |       |         | -0.106                                    |         |          |       |         |         |       |
|                                         |       |         | MUHD                                      | 110kv   | SBA1     |       |         |         | 420   |
| APD                                     |       |         | 0.576                                     |         |          |       |         |         |       |
|                                         | OhlCb | O       | MWVEDENI                                  | 110kv   | 5518_FA_ | -1.7  | 0.6     | 8.7     | 450   |
|                                         |       |         | -0.000                                    |         |          |       |         |         |       |
|                                         |       |         | MFA                                       | 110kv   | SBA1     |       |         |         | 450   |
| APD                                     |       |         | 0.287                                     |         |          |       |         |         |       |
|                                         | BBC   | O       | MOKC                                      | 110kv   | KP1cmp   | 27.0  | -24.8   | 178.2   | 9999  |
|                                         |       |         | 0.000                                     |         |          |       |         |         |       |
|                                         |       |         | MOKC                                      | 110kv   | SBB1     |       |         |         | 9999  |
| APD                                     |       |         | 0.000                                     |         |          |       |         |         |       |
|                                         | Trafo | F       | MOKC                                      | 110kv   | T401_cmp | 121.8 | 48.3    | 637.2   | 1837  |
|                                         |       |         | -0.028                                    |         |          |       |         |         |       |
|                                         |       |         | MOKC                                      | 110kv   | SBV.T401 |       |         |         | 1837  |
| APD                                     |       |         | 11.850                                    |         |          |       |         |         |       |
| -----                                   |       |         |                                           |         |          |       |         |         |       |
| E                                       | PQnod | O       | MOKC                                      | 110kv   | SBC1     | 0.0   | -0.0    | 118.8   | -3.85 |
|                                         |       | eISn    | NetGr                                     |         |          |       |         |         | 110.0 |
|                                         | 1     |         |                                           |         |          |       |         |         |       |
| ~~~~~                                   |       |         |                                           |         |          |       |         |         |       |
| ~~~~~                                   |       |         |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |
| =====                                   |       |         |                                           |         |          |       |         |         |       |

| 01 UCH - zapojení s můstkem T401 + T403 |         |         |       |          |        |       |         |         |  |
|-----------------------------------------|---------|---------|-------|----------|--------|-------|---------|---------|--|
| Type                                    | Nm      | Station | VL    | Circuit  | Pcalc  | Qcalc | I/Vcalc | In/Phi  |  |
| (nodes:                                 | St1 Flg | Ploss   |       | Busbar)  |        |       |         | Ilim/Vn |  |
| St2 Flg                                 | Qloss   |         |       |          |        |       |         |         |  |
| Trafo                                   | F       | MOKC    | 400kV | T401_cmp | 130.8  | 28.6  | 670.4   | 1837    |  |
| 7                                       |         | -0.164  |       |          |        |       |         |         |  |
|                                         |         | MOKC    | 400kV | SBA      |        |       |         | 1837    |  |
| APD                                     |         | -21.589 |       |          |        |       |         |         |  |
| Trafo                                   | F       | MOKC    | 10kV  | T401_cmp | -8.9   | 7.9   | 59.6    | 525     |  |
|                                         |         | -0.002  |       |          |        |       |         |         |  |
|                                         |         | MOKC    | 10kV  | SBT401   |        |       |         | 525     |  |
| APD                                     |         | -0.426  |       |          |        |       |         |         |  |
| Trafo                                   | F       | MOKC    | 110kV | T401_cmp | -121.9 | -36.5 | 637.2   | 1837    |  |
|                                         |         | -0.028  |       |          |        |       |         |         |  |
|                                         |         | MOKC    | 110kV | SBC1     |        |       |         | 1837    |  |
| APD                                     |         | 11.850  |       |          |        |       |         |         |  |
| PQnod                                   | O       | MOKC    | 110kV | SBV.T401 | 0.0    | -0.0  | 115.3   | -8.83   |  |
| elSn                                    |         | NetGr   |       |          |        |       |         | 110.0   |  |
| 1                                       |         |         |       |          |        |       |         |         |  |

| Type    | Nm      | Station | VL    | Circuit  | Pcalc  | Qcalc | I/Vcalc | In/Phi  |  |
|---------|---------|---------|-------|----------|--------|-------|---------|---------|--|
| (nodes: | St1 Flg | Ploss   |       | Busbar)  |        |       |         | Ilim/Vn |  |
| St2 Flg | Qloss   |         |       |          |        |       |         |         |  |
| Trafo   | F       | MOKC    | 400kV | T402_cmp | 166.6  | -1.1  | 814.0   | 1837    |  |
| 6       |         | -0.174  |       |          |        |       |         |         |  |
|         |         | MOKC    | 400kV | SBB      |        |       |         | 1312    |  |
| APD     |         | -33.517 |       |          |        |       |         |         |  |
| Trafo   | F       | MOKC    | 10kV  | T402_cmp | 2.6    | -0.9  | 13.4    | 525     |  |
|         |         | -0.000  |       |          |        |       |         |         |  |
|         |         | MOKC    | 10kV  | SBT402   |        |       |         | 525     |  |
| APD     |         | -0.022  |       |          |        |       |         |         |  |
| Trafo   | F       | MOKC    | 110kV | T402_cmp | -169.2 | 2.0   | 826.8   | 1837    |  |
|         |         | -0.052  |       |          |        |       |         |         |  |
|         |         | MOKC    | 110kV | SBA1     |        |       |         | 1837    |  |
| APD     |         | 23.014  |       |          |        |       |         |         |  |
| PQnod   | O       | MOKC    | 110kV | SBV.T402 | 0.0    | -0.0  | 118.1   | -11.59  |  |
| elSn    |         | NetGr   |       |          |        |       |         | 110.0   |  |
| 1       |         |         |       |          |        |       |         |         |  |

| Type    | Nm      | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |  |
|---------|---------|---------|-------|----------|-------|-------|---------|---------|--|
| (nodes: | St1 Flg | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |  |
| St2 Flg | Qloss   |         |       |          |       |       |         |         |  |
| Trafo   | F       | MOKC    | 400kV | T403_cmp | 157.9 | -25.1 | 768.4   | 1837    |  |
| 5       |         | -0.154  |       |          |       |       |         |         |  |
|         |         | MOKC    | 400kV | SBA      |       |       |         | 1312    |  |
| APD     |         | -26.360 |       |          |       |       |         |         |  |
| Trafo   | F       | MOKC    | 10kV  | T403_cmp | -0.0  | -0.0  | 0.0     | 525     |  |

|                                         |       |   |        |       |          |          |      |       |       |       |
|-----------------------------------------|-------|---|--------|-------|----------|----------|------|-------|-------|-------|
| 01 UCH - zapojení s můstkem T401 + T403 |       |   |        |       |          |          |      |       |       |       |
| APD                                     | Trafo | F | 0.000  | 10kv  | T403_cmp |          |      | 525   |       |       |
|                                         |       |   | MOKC   |       |          |          |      |       |       |       |
|                                         |       |   | -0.000 | 110kv | T403_cmp | -157.9   | 25.1 | 768.4 | 1837  |       |
|                                         |       |   | MOKC   |       |          |          |      |       |       |       |
| APD                                     |       |   | -0.043 | 110kv | SBB1     |          |      | 1837  |       |       |
|                                         |       |   | MOKC   |       |          |          |      |       |       |       |
| -----                                   |       |   |        |       |          |          |      |       |       |       |
| PQnod                                   |       |   | 0      | MOKC  | 110kv    | SBV.T403 | 0.0  | -0.0  | 120.1 | -9.82 |
| elSn                                    |       |   | NetGr  |       |          |          |      |       |       |       |
|                                         |       |   |        |       |          |          |      | 110.0 |       |       |
| 1                                       |       |   |        |       |          |          |      |       |       |       |
| ~~~~~                                   |       |   |        |       |          |          |      |       |       |       |
| ~~~~~                                   |       |   |        |       |          |          |      |       |       |       |

| Type    | Nm | Station  | VL    | Circuit  | Pcalc  | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|--------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |        |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |        |       |         |         |
| St2 Flg |    | Qloss    |       |          |        |       |         |         |
| =====   |    |          |       |          |        |       |         |         |
| ohlcb   | F  | MWVEDENI | 400kV | 417_OKC  | 40.0   | -24.1 | 64.8    | 1200    |
|         |    | -0.044   |       |          |        |       |         |         |
|         |    | MSO      | 400KV | SBV.KP2  |        |       |         | 1200    |
| APD     |    | 40.164   |       |          |        |       |         |         |
| BBC     | F  | MOKC     | 400KV | KP1cmp   | 249.0  | 75.6  | 361.2   | 9999    |
|         |    | 0.000    |       |          |        |       |         |         |
|         |    | MOKC     | 400KV | SBB      |        |       |         | 9999    |
| DEF     |    | 0.000    |       |          |        |       |         |         |
| Trafo   | F  | MOKC     | 400KV | T401_cmp | -130.9 | -50.1 | 194.6   | 505     |
|         |    | -0.164   |       |          |        |       |         |         |
|         |    | MOKC     | 110kV | SBV.T401 |        |       |         | 505     |
| APD     |    | -21.589  |       |          |        |       |         |         |
| Trafo   | F  | MOKC     | 400KV | T403_cmp | -158.0 | -1.3  | 219.4   | 505     |
|         |    | -0.154   |       |          |        |       |         |         |
|         |    | MOKC     | 110kV | SBV.T403 |        |       |         | 361     |
| APD     |    | -26.360  |       |          |        |       |         |         |
| -----   |    |          |       |          |        |       |         |         |
| PQnod   |    |          | F     | MOKC     | 400KV  | SBA   | 0.0     | 0.0     |
|         |    |          | elSn  | NetGr    |        |       |         | 415.9   |
|         |    |          |       |          |        |       |         | -0.33   |
|         |    |          |       |          |        |       |         | 400.0   |
| 1       |    |          |       |          |        |       |         |         |
| ~~~~~   |    |          |       |          |        |       |         |         |
| ~~~~~   |    |          |       |          |        |       |         |         |

| Type    | Nm | Station | VL    | Circuit  | Pcalc  | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|--------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | Busbar)  |        |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |        |       |         |         |
| St2 Flg |    | Qloss   |       |          |        |       |         |         |
| =====   |    |         |       |          |        |       |         |         |
| BBC     | F  | MOKC    | 400KV | KP1cmp   | -249.0 | -75.6 | 361.2   | 9999    |
|         |    | 0.000   |       |          |        |       |         |         |
|         |    | MOKC    | 400KV | SBA      |        |       |         | 9999    |
| DEF     |    | 0.000   |       |          |        |       |         |         |
| Trafo   | F  | MOKC    | 400KV | T402_cmp | -166.7 | -32.4 | 235.8   | 505     |
|         |    | -0.174  |       |          |        |       |         |         |
|         |    | MOKC    | 110kV | SBV.T402 |        |       |         | 361     |
| APD     |    | -33.517 |       |          |        |       |         |         |
| -----   |    |         |       |          |        |       |         |         |
| E PVnod | F  | MOKC    | 400KV | SBB      | 415.7  | 107.9 | 415.9   | -0.33   |
|         |    |         | elSn  | NetGr    |        |       |         |         |

## 01 UCH - zapojení s můstkem T401 + T403

400.0

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|     |   |      |       |          |       |       |       |       |
|-----|---|------|-------|----------|-------|-------|-------|-------|
| Inj | F | MOKC | 400kV | INJ.V418 | 415.8 | 107.9 | 596.3 | 28868 |
|-----|---|------|-------|----------|-------|-------|-------|-------|

| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|---------------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|---------------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|              |   |                             |       |          |       |      |      |     |
|--------------|---|-----------------------------|-------|----------|-------|------|------|-----|
| ohlCb        | 0 | MWVEDENI<br>-0.006          | 110kV | 5505_OKC | 13.6  | 3.5  | 68.3 | 450 |
|              |   | MOKC                        | 110kV | SBC1     |       |      |      | 450 |
| APD<br>ohlCb | 0 | 0.106<br>MWVEDENI<br>-0.001 | 110kV | 5508_BAR | -12.3 | -3.7 | 62.7 | 450 |
|              |   | MBAR                        | 110kV | SBA1     |       |      |      | 450 |
| APD          |   | 0.045                       |       |          |       |      |      |     |

|       |   |       |       |      |      |     |       |       |
|-------|---|-------|-------|------|------|-----|-------|-------|
| PQnod | 0 | MOK_D | 110kV | SBA1 | -1.3 | 0.3 | 118.7 | -3.91 |
| elSn  |   | NetGr |       |      |      |     |       | 110.0 |

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|      |   |       |       |          |      |     |     |    |
|------|---|-------|-------|----------|------|-----|-----|----|
| Load | F | MOK_D | 110kV | T101LOAD | -1.3 | 0.3 | 6.3 | 52 |
|------|---|-------|-------|----------|------|-----|-----|----|

| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|---------------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|---------------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|                    |   |                             |       |          |       |      |       |     |
|--------------------|---|-----------------------------|-------|----------|-------|------|-------|-----|
| ohlCb              | 0 | MWVEDENI<br>-0.003          | 110kV | _542_HO_ | -1.9  | -5.2 | 27.3  | 450 |
|                    |   | MHO                         | 110kV | SBB1     |       |      |       | 450 |
| APD<br>ohlCb       | 0 | 0.348<br>MWVEDENI<br>-0.172 | 110kV | _547_NAD | 20.0  | 7.3  | 105.5 | 450 |
|                    |   | MNA_D                       | 110kV | SBA1     |       |      |       | 450 |
| APD<br>Trafo<br>13 | 0 | 0.911<br>MPNV<br>-0.083     | 110kV | T101_cmp | -18.1 | -2.1 | 90.2  | 226 |
|                    |   | MPNV                        | 22kV  | SBA1     |       |      |       | 226 |
| APD                |   | -1.128                      |       |          |       |      |       |     |

|       |   |       |       |      |     |      |       |       |
|-------|---|-------|-------|------|-----|------|-------|-------|
| PQnod | 0 | MPNV  | 110kV | SBA1 | 0.0 | -0.0 | 116.5 | -6.80 |
| elSn  |   | NetGr |       |      |     |      |       | 110.0 |

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| Type<br>St1 Flg | Nm<br>Flg | Station<br>Ploss | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi |
|-----------------|-----------|------------------|----|---------|-------|-------|---------|--------|
|-----------------|-----------|------------------|----|---------|-------|-------|---------|--------|

| 01 UCH - zapojení s můstkem T401 + T403 |         |                    |       |                    |       |       |         |                   |
|-----------------------------------------|---------|--------------------|-------|--------------------|-------|-------|---------|-------------------|
| (nodes:<br>St2 Flg Qloss                | Busbar) |                    |       |                    |       |       | Ilim/Vn |                   |
| Trafo<br>13                             | 0       | MPNV<br>-0.083     | 110kV | T101_cmp           | 18.0  | 1.0   | 464.7   | 1128              |
| APD                                     |         | MPNV<br>-1.128     | 110kV | SBA1               |       |       |         | 1128              |
| PQnod<br>elSn                           | 0       | MPNV<br>NetGr      | 22kV  | SBA1               | -18.0 | -1.0  | 22.40   | -9.70             |
| 1                                       |         |                    |       |                    |       |       |         | 22.00             |
| Load                                    | 0       | MPNV               | 22kV  | SBA1LOAD           | -9.0  | -0.5  | 232.4   | 2099              |
| Load                                    | 0       | MPNV               | 22kV  | SBA2LOAD           | -9.0  | -0.5  | 232.4   | 2099              |
| ~~~~~                                   |         |                    |       |                    |       |       |         |                   |
| Type<br>St1 Flg                         | Nm      | Station<br>Ploss   | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| (nodes:<br>St2 Flg Qloss                |         |                    |       |                    |       |       |         |                   |
| OhlCb                                   | 0       | MWVEDENI<br>-0.237 | 110kV | 5577_NZD           | 32.6  | 4.7   | 164.8   | 450               |
| APD                                     |         | MNZ_D<br>0.113     | 110kV | SBA1               |       |       |         | 450               |
| OhlCb                                   | 0       | MWVEDENI<br>-0.358 | 110kV | 5578_PRT           | 31.3  | 5.3   | 158.9   | 450               |
| APD                                     |         | MZDO<br>0.286      | 110kV | SBA1               |       |       |         | 450               |
| OhlCb                                   | 0       | MWVEDENI<br>-0.028 | 110kV | 5594_KNC           | -9.3  | -1.4  | 46.8    | 450               |
| APD                                     |         | MKNC<br>0.943      | 110kV | SBA1               |       |       |         | 450               |
| OhlCb                                   | 0       | MWVEDENI<br>-0.000 | 110kV | _556_PRT           | -0.0  | 1.3   | 6.6     | 450               |
| APD                                     |         | MWVEDENI<br>1.309  | 110kV | _556_PRT           |       |       |         | 450               |
| Trafo<br>12                             | 0       | MPRT<br>-0.089     | 110kV | T103_cmp           | -31.5 | -5.5  | 160.1   | 210               |
| APD                                     |         | MPRT<br>-3.089     | 22kV  | SBB1               |       |       |         | 210               |
| Trafo<br>12                             | 0       | MPRT<br>-0.110     | 110kV | T101_cmp           | -23.1 | -4.4  | 117.9   | 210               |
| APD                                     |         | MPRT<br>-1.823     | 22kV  | SBA1               |       |       |         | 210               |
| PQnod<br>elSn                           | 0       | MPRT<br>NetGr      | 110kV | SBA                | 0.0   | -0.0  | 115.2   | -7.37             |
| 1                                       |         |                    |       |                    |       |       |         | 110.0             |
| ~~~~~                                   |         |                    |       |                    |       |       |         |                   |
| Type<br>St1 Flg                         | Nm      | Station<br>Ploss   | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| (nodes:<br>St2 Flg Qloss                |         |                    |       |                    |       |       |         |                   |

# 01 UCH - zapojení s můstkem T401 + T403

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | 0 | MPRT   | 110kV | T101_cmp | 23.0 | 2.6 | 595.8 | 1050 |
| 12    |   | -0.110 |       |          |      |     |       |      |
| APD   |   | MPRT   | 110kV | SBA      |      |     |       | 1050 |
|       |   | -1.823 |       |          |      |     |       |      |

|       |   |       |      |      |       |      |       |        |
|-------|---|-------|------|------|-------|------|-------|--------|
| PQnod | 0 | MPRT  | 22kV | SBA1 | -23.0 | -2.6 | 22.43 | -11.22 |
| elSn  |   | NetGr |      |      |       |      |       |        |
| 1     |   |       |      |      |       |      |       | 22.00  |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MPRT | 22kV | SBA1LOAD | -11.5 | -1.3 | 297.9 | 2756 |
| Load | 0 | MPRT | 22kV | SBA2LOAD | -11.5 | -1.3 | 297.9 | 2756 |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | 0 | MPRT   | 110kV | T103_cmp | 31.4 | 2.4 | 811.1 | 1050 |
| 12    |   | -0.089 |       |          |      |     |       |      |
| APD   |   | MPRT   | 110kV | SBA      |      |     |       | 1050 |
|       |   | -3.089 |       |          |      |     |       |      |

|       |   |       |      |      |       |      |       |        |
|-------|---|-------|------|------|-------|------|-------|--------|
| PQnod | 0 | MPRT  | 22kV | SBB1 | -31.4 | -2.4 | 22.41 | -12.80 |
| elSn  |   | NetGr |      |      |       |      |       |        |
| 1     |   |       |      |      |       |      |       | 22.00  |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MPRT | 22kV | SBB1LOAD | -15.7 | -1.2 | 405.6 | 2756 |
| Load | 0 | MPRT | 22kV | SBB2LOAD | -15.7 | -1.2 | 405.6 | 2756 |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |          |       |          |       |      |      |     |
|-------|---|----------|-------|----------|-------|------|------|-----|
| oh1Cb | 0 | MWVEDENI | 110kV | _573_OKC | 15.7  | 2.9  | 78.2 | 450 |
|       |   | -0.075   |       |          |       |      |      |     |
| APD   |   | MOKC     | 110kV | SBB1     |       |      |      | 450 |
|       |   | 1.034    |       |          |       |      |      |     |
| Trafo | 0 | MRYC     | 110kV | T101_cmp | -15.7 | -2.9 | 78.2 | 131 |
| 13    |   | -0.102   |       |          |       |      |      |     |
| APD   |   | MRYC     | 22kV  | SB.A1    |       |      |      | 131 |
|       |   | -1.326   |       |          |       |      |      |     |

|       |   |       |       |      |      |     |       |       |
|-------|---|-------|-------|------|------|-----|-------|-------|
| PQnod | 0 | MRYC  | 110kV | SBA1 | -0.0 | 0.0 | 118.0 | -4.59 |
| elSn  |   | NetGr |       |      |      |     |       |       |
| 1     |   |       |       |      |      |     |       | 110.0 |

## 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss        | VL             | Circuit<br>Busbar)   | Pcalc        | Qcalc        | I/Vcalc        | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|----------------------------------|----------------|----------------------|--------------|--------------|----------------|-------------------|
| Trafo<br>13                   | 0                | MRYC<br>-0.102<br>MRYC<br>-1.326 | 110kV<br>110kV | T101_cmp<br>SBA1     | 15.6         | 1.6          | 402.4          | 656<br>656        |
| APD                           |                  |                                  |                |                      |              |              |                |                   |
| PQnod<br>elSn                 | 0                | MRYC<br>NetGr                    | 22kV           | SB.A1                | -15.6        | -1.6         | 22.50          | -8.80<br>22.00    |
| Load<br>Load                  | 0<br>0           | MRYC<br>MRYC                     | 22kV<br>22kV   | SBA1LOAD<br>SBA2LOAD | -7.8<br>-7.8 | -0.8<br>-0.8 | 201.2<br>201.2 | 1312<br>1312      |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss           | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0                | MWVEDENI<br>-0.447<br>MUBR<br>0.165 | 110kV<br>110kV | 5510_SLM<br>SBB    | 29.5  | 9.4   | 156.2   | 350<br>350        |
| APD                           |                  |                                     |                |                    |       |       |         |                   |
| Trafo<br>11                   | 0                | MSLM<br>-0.080<br>MSLM<br>-2.856    | 110kV<br>22kV  | T101_cmp<br>SBA1   | -29.5 | -9.4  | 156.2   | 210<br>210        |
| APD                           |                  |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0                | MSLM<br>NetGr                       | 110kV          | SBA1               | -0.0  | 0.0   | 114.3   | -6.77<br>110.0    |
| 1                             |                  |                                     |                |                    |       |       |         |                   |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss        | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|----------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| Trafo<br>11                   | 0                | MSLM<br>-0.080<br>MSLM<br>-2.856 | 110kV<br>110kV | T101_cmp<br>SBA1   | 29.4  | 6.5   | 776.3   | 1050<br>1050      |
| APD                           |                  |                                  |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0                | MSLM<br>NetGr                    | 22kV           | SBA1               | -29.4 | -6.5  | 22.39   | -11.88<br>22.00   |
| 1                             |                  |                                  |                |                    |       |       |         |                   |

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01 UCH - zapojení s můstkem T401 + T403
Load O MSLM 22kV SBA1LOAD -29.4 -6.5 776.3 1706
~~~~~

```

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss   | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|-----------------------------|-------|--------------------|-------|-------|---------|-------------------|
| ohlCb                         | 0                | MWVEDENI<br>-0.071          | 110kV | 5574_MAD           | 19.1  | 4.8   | 96.6    | 450               |
|                               |                  | MMAD                        | 110kV | SBB                |       |       |         | 450               |
| APD<br>ohlCb                  | 0                | 0.408<br>MWVEDENI<br>-0.008 | 110kV | _568_VST           | 5.2   | 2.2   | 27.5    | 450               |
|                               |                  | MVST                        | 110kV | SBB                |       |       |         | 450               |
| APD<br>Trafo<br>12            | 0                | 0.839<br>MSLU<br>-0.119     | 110kV | T101_cmp           | -24.3 | -7.0  | 123.9   | 210               |
|                               |                  | MSLU<br>-1.997              | 22kV  | SBA1               |       |       |         | 210               |
| PQnod<br>elSn                 | 0                | MSLU<br>NetGr               | 110kV | SBA1               | -0.0  | 0.0   | 117.9   | -4.44             |
| 1                             |                  |                             |       |                    |       |       |         | 110.0             |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| Trafo<br>12                   | 0                | MSLU<br>-0.119            | 110kV | T101_cmp           | 24.2  | 5.0   | 625.8   | 1050              |
|                               |                  | MSLU<br>-1.997            | 110kV | SBA1               |       |       |         | 1050              |
| APD                           |                  |                           |       |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0                | MSLU<br>NetGr             | 22kV  | SBA1               | -24.2 | -5.0  | 22.80   | -8.31             |
| 1                             |                  |                           |       |                    |       |       |         | 22.00             |
| Load                          | 0                | MSLU                      | 22kV  | SBA1LOAD           | -12.1 | -2.5  | 312.9   | 1706              |
| Load                          | 0                | MSLU                      | 22kV  | SBA2LOAD           | -12.1 | -2.5  | 312.9   | 1706              |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| ohlCb                         | 0                | MWVEDENI<br>-0.001        | 110kV | 5573_MAD           | -1.9  | -1.7  | 12.5    | 450               |
|                               |                  | MMAD                      | 110kV | SBA                |       |       |         | 450               |

|                                         |       |          |        |          |          |       |         |         |       |
|-----------------------------------------|-------|----------|--------|----------|----------|-------|---------|---------|-------|
| 01 UCH - zapojení s můstkem T401 + T403 |       |          |        |          |          |       |         |         |       |
| APD                                     | Trafo | F        | MSVI   | 110kV    | T114_cmp | 1.9   | 1.7     | 12.5    | 131   |
|                                         | 15    |          | -0.038 |          |          |       |         |         |       |
| APD                                     |       |          | MSVI   | 6kV      | SBA      |       |         |         | 131   |
|                                         |       |          | -0.094 |          |          |       |         |         |       |
| -----                                   |       |          |        |          |          |       |         |         |       |
|                                         | PQnod | O        | MSVI   | 110kV    | SBV.T114 | 0.0   | 0.0     | 118.6   | -4.04 |
|                                         |       | elSn     | NetGr  |          |          |       |         |         |       |
|                                         | 1     |          |        |          |          |       |         |         | 110.0 |
| ~~~~~                                   |       |          |        |          |          |       |         |         |       |
| =====                                   |       |          |        |          |          |       |         |         |       |
| Type                                    | Nm    | Station  | VL     | Circuit  | Pcalc    | Qcalc | I/Vcalc | In/Phi  |       |
| St1 Flg                                 |       | Ploss    |        | Busbar)  |          |       |         | Ilim/Vn |       |
| (nodes:                                 |       |          |        |          |          |       |         |         |       |
| St2 Flg                                 |       | Qloss    |        |          |          |       |         |         |       |
| =====                                   |       |          |        |          |          |       |         |         |       |
| OhlCb                                   | O     | MWVEDENI | 110kV  | 5572_MAD | -3.0     | -2.8  | 19.7    | 450     |       |
|                                         |       | -0.001   |        |          |          |       |         |         |       |
|                                         |       | MMAD     | 110kV  | SBB      |          |       |         | 450     |       |
| APD                                     |       | 0.031    |        |          |          |       |         |         |       |
| Trafo                                   | F     | MSVI     | 110kV  | T115_cmp | 3.0      | 2.8   | 19.7    | 210     |       |
| 15                                      |       | -0.029   |        |          |          |       |         |         |       |
| APD                                     |       | MSVI     | 6kV    | SBA      |          |       |         | 210     |       |
|                                         |       | -0.277   |        |          |          |       |         |         |       |
| -----                                   |       |          |        |          |          |       |         |         |       |
|                                         | PQnod | O        | MSVI   | 110kV    | SBV.T115 | 0.0   | -0.0    | 118.6   | -4.03 |
|                                         |       | elSn     | NetGr  |          |          |       |         |         |       |
|                                         | 1     |          |        |          |          |       |         |         | 110.0 |
| ~~~~~                                   |       |          |        |          |          |       |         |         |       |
| =====                                   |       |          |        |          |          |       |         |         |       |
| Type                                    | Nm    | Station  | VL     | Circuit  | Pcalc    | Qcalc | I/Vcalc | In/Phi  |       |
| St1 Flg                                 |       | Ploss    |        | Busbar)  |          |       |         | Ilim/Vn |       |
| (nodes:                                 |       |          |        |          |          |       |         |         |       |
| St2 Flg                                 |       | Qloss    |        |          |          |       |         |         |       |
| =====                                   |       |          |        |          |          |       |         |         |       |
| Trafo                                   | F     | MSVI     | 110kV  | T114_cmp | -2.0     | -1.8  | 250.9   | 2291    |       |
| 15                                      |       | -0.038   |        |          |          |       |         |         |       |
|                                         |       | MSVI     | 110kV  | SBV.T114 |          |       |         | 2291    |       |
| APD                                     |       | -0.094   |        |          |          |       |         |         |       |
| Trafo                                   | F     | MSVI     | 110kV  | T115_cmp | -3.0     | -3.0  | 402.7   | 3666    |       |
| 15                                      |       | -0.029   |        |          |          |       |         |         |       |
| APD                                     |       | MSVI     | 110kV  | SBV.T115 |          |       |         | 3666    |       |
|                                         |       | -0.277   |        |          |          |       |         |         |       |
| -----                                   |       |          |        |          |          |       |         |         |       |
|                                         | PVnod | F        | MSVI   | 6kV      | SBA      | 5.0   | 4.8     | 6.12    | -3.51 |
|                                         |       | elSn     | NetGr  |          |          |       |         |         |       |
|                                         | 1     |          |        |          |          |       |         |         | 6.30  |
| -----                                   |       |          |        |          |          |       |         |         |       |
| Load                                    | F     | MSVI     | 6kV    | SBALOAD  | -17.5    | -5.6  | 1733.3  | 9622    |       |
| Gen                                     | F     | MSVI     | 6kV    | GEN31cmp | 18.0     | 5.0   | 1757.5  | 751     |       |
| Gen                                     | F     | MSVI     | 6kV    | GEN6cmp  | 4.5      | 5.5   | 668.4   | 751     |       |
| ~~~~~                                   |       |          |        |          |          |       |         |         |       |

## 01 UCH - zapojení s můstkem T401 + T403

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0                | MWVEDENI<br>-0.638        | 110kV | 5570_OKC           | 48.3  | 9.0   | 243.1   | 450               |
| APD                           |                  | MOKC<br>-0.828            | 110kV | SBA1               |       |       |         | 450               |
| oh1Cb                         | 0                | MWVEDENI<br>-0.638        | 110kV | 5571_OKC           | 48.3  | 9.0   | 243.1   | 450               |
| APD                           |                  | MOKC<br>-0.828            | 110kV | SBA1               |       |       |         | 450               |
| oh1Cb                         | 0                | MWVEDENI<br>-0.137        | 110kV | _543_UBR           | -25.9 | 0.7   | 128.2   | 450               |
| APD                           |                  | MVKA<br>0.347             | 110kV | SBA3               |       |       |         | 450               |
| oh1Cb                         | 0                | MWVEDENI<br>-0.447        | 110kV | 5510_SLM           | -29.9 | -9.2  | 154.9   | 350               |
| APD                           |                  | MSLM<br>0.165             | 110kV | SBA1               |       |       |         | 350               |
| Trafo<br>12                   | 0                | MUBR<br>-0.113            | 110kV | T101_cmp           | -22.7 | -6.2  | 116.5   | 210               |
| APD                           |                  | MUBR<br>-1.772            | 22kV  | SBA1               |       |       |         | 210               |
| Trafo<br>13                   | 0                | MUBR<br>-0.049            | 110kV | T102_cmp           | -18.0 | -3.4  | 90.9    | 210               |
| APD                           |                  | MUBR<br>-0.988            | 22kV  | SBB1               |       |       |         | 210               |

|       |   |       |       |     |     |      |       |       |
|-------|---|-------|-------|-----|-----|------|-------|-------|
| PQnod | 0 | MUBR  | 110kV | SBB | 0.0 | -0.0 | 116.7 | -5.77 |
| elSn  |   | NetGr |       |     |     |      |       | 110.0 |
| 1     |   |       |       |     |     |      |       |       |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| Trafo<br>12                   | 0                | MUBR<br>-0.113            | 110kV | T101_cmp           | 22.6  | 4.4   | 588.3   | 1050              |
| APD                           |                  | MUBR<br>-1.772            | 110kV | SBB                |       |       |         | 1050              |

|       |   |       |      |      |       |      |       |       |
|-------|---|-------|------|------|-------|------|-------|-------|
| PQnod | 0 | MUBR  | 22kV | SBA1 | -22.6 | -4.4 | 22.60 | -9.51 |
| elSn  |   | NetGr |      |      |       |      |       | 22.00 |
| 1     |   |       |      |      |       |      |       |       |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MUBR | 22kV | SBA1LOAD | -11.3 | -2.2 | 294.2 | 2099 |
| Load | 0 | MUBR | 22kV | SBA2LOAD | -11.3 | -2.2 | 294.2 | 2099 |

| Type | Nm | Station | VL | Circuit    | Pcalc | Qcalc | I/Vcalc | In/Phi |
|------|----|---------|----|------------|-------|-------|---------|--------|
|      |    |         |    | stránka 30 |       |       |         |        |

## 01 UCH - zapojení s můstkem T401 + T403

| St1 Flg         |   | Ploss  |       |          |       |      |       | Ilim/Vn |  |
|-----------------|---|--------|-------|----------|-------|------|-------|---------|--|
| (nodes: St2 Flg |   | Qloss  |       | Busbar)  |       |      |       |         |  |
| =====           |   |        |       |          |       |      |       |         |  |
| =====           |   |        |       |          |       |      |       |         |  |
| Trafo           | 0 | MUBR   | 110kv | T102_cmp | 18.0  | 2.4  | 468.7 | 1050    |  |
| 13              |   | -0.049 |       |          |       |      |       |         |  |
|                 |   | MUBR   | 110kv | SBB      |       |      |       | 1050    |  |
| APD             |   | -0.988 |       |          |       |      |       |         |  |
| -----           |   |        |       |          |       |      |       |         |  |
| PQnod           | 0 | MUBR   | 22kv  | SBB1     | -18.0 | -2.4 | 22.37 | -8.82   |  |
| elSn            |   | NetGr  |       |          |       |      |       |         |  |
|                 |   |        |       |          |       |      |       | 22.00   |  |
| 1               |   |        |       |          |       |      |       |         |  |
| -----           |   |        |       |          |       |      |       |         |  |
| Load            | 0 | MUBR   | 22kv  | SBB1LOAD | -9.0  | -1.2 | 234.3 | 2099    |  |
| Load            | 0 | MUBR   | 22kv  | SBB2LOAD | -9.0  | -1.2 | 234.3 | 2099    |  |
| ~~~~~           |   |        |       |          |       |      |       |         |  |

| Type St1 Flg    | Nm | Station Ploss   | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|----|-----------------|-------|----------|-------|-------|---------|---------|
| (nodes: St2 Flg |    | Qloss           |       | Busbar)  |       |       |         | Ilim/Vn |
| OhlCb           | 0  | MWVEDENI -0.106 | 110kV | 5516_OKC | 19.3  | 3.9   | 96.5    | 420     |
| APD             |    | MOKC 0.576      | 110kV | SBC1     |       |       |         | 420     |
| OhlCb           | 0  | MWVEDENI -0.106 | 110kV | 5517_OKC | 19.3  | 3.9   | 96.5    | 420     |
| APD             |    | MOKC 0.576      | 110kV | SBB1     |       |       |         | 420     |
| Trafo 12        | 0  | MUHD -0.246     | 110kV | T101_cmp | -38.6 | -7.7  | 193.0   | 210     |
| APD             |    | MUHD -4.541     | 22kV  | SBA      |       |       |         | 210     |
| PQnod elSn      | 0  | MUHD NetGr      | 110kV | SBA1     | 0.0   | 0.0   | 117.9   | -4.44   |
| 1               |    |                 |       |          |       |       |         | 110.0   |

| Type St1 Flg    | Nm | Station Ploss | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|----|---------------|-------|----------|-------|-------|---------|---------|
| (nodes: St2 Flg |    | Qloss         |       | Busbar)  |       |       |         | Ilim/Vn |
| Trafo 12        | 0  | MUHD -0.246   | 110kV | T101_cmp | 38.4  | 3.2   | 976.8   | 1050    |
| APD             |    | MUHD -4.541   | 110kV | SBA1     |       |       |         | 1050    |
| PQnod elSn      | 0  | MUHD NetGr    | 22kV  | SBA      | -38.4 | -3.2  | 22.78   | -10.73  |
| 1               |    |               |       |          |       |       |         | 22.00   |

01 UCH - zapojení s můstkem T401 + T403

|      |   |      |      |         |       |      |       |      |
|------|---|------|------|---------|-------|------|-------|------|
| Load | O | MUHD | 22kV | SBALOAD | -38.4 | -3.2 | 976.8 | 2099 |
|------|---|------|------|---------|-------|------|-------|------|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|             |   |                    |       |          |       |      |       |     |
|-------------|---|--------------------|-------|----------|-------|------|-------|-----|
| ohlCb       | O | MWVEDENI<br>-0.027 | 110kV | _540_VKA | -13.9 | 1.8  | 69.8  | 450 |
| APD         |   | MVLM<br>0.392      | 110kV | SBA7     |       |      |       | 450 |
| ohlCb       | O | MWVEDENI<br>-0.137 | 110kV | _543_UBR | 25.8  | -0.4 | 128.2 | 450 |
| APD         |   | MUBR<br>0.347      | 110kV | SBB      |       |      |       | 450 |
| Trafo<br>13 | O | MVKA<br>-0.035     | 110kV | T103_cmp | -7.0  | -1.1 | 35.4  | 131 |
| APD         |   | MVKA<br>-0.363     | 22kV  | SBA      |       |      |       | 131 |

|               |   |               |       |      |      |      |       |       |
|---------------|---|---------------|-------|------|------|------|-------|-------|
| PQnod<br>elSn | O | MVKA<br>NetGr | 110kV | SBA3 | -4.8 | -0.3 | 116.1 | -6.57 |
| 1             |   |               |       |      |      |      |       | 110.0 |

|      |   |      |       |          |      |      |      |     |
|------|---|------|-------|----------|------|------|------|-----|
| Load | F | MVKA | 110kV | T102LOAD | -4.8 | -0.3 | 23.9 | 131 |
|------|---|------|-------|----------|------|------|------|-----|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|             |   |                |       |          |     |     |       |     |
|-------------|---|----------------|-------|----------|-----|-----|-------|-----|
| Trafo<br>13 | O | MVKA<br>-0.035 | 110kV | T103_cmp | 7.0 | 0.7 | 181.8 | 656 |
| APD         |   | MVKA<br>-0.363 | 110kV | SBA3     |     |     |       | 656 |

|               |   |               |      |     |      |      |       |       |
|---------------|---|---------------|------|-----|------|------|-------|-------|
| PQnod<br>elSn | O | MVKA<br>NetGr | 22kV | SBA | -7.0 | -0.7 | 22.34 | -8.53 |
| 1             |   |               |      |     |      |      |       | 22.00 |

|      |   |      |      |         |      |      |       |      |
|------|---|------|------|---------|------|------|-------|------|
| Load | O | MVKA | 22kV | SBALOAD | -7.0 | -0.7 | 181.8 | 1050 |
|------|---|------|------|---------|------|------|-------|------|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

## 01 UCH - zapojení s můstkem T401 + T403

|       |   |          |       |          |       |      |      |     |
|-------|---|----------|-------|----------|-------|------|------|-----|
| oh1Cb | O | MWVEDENI | 110kV | _540_VKA | 13.9  | -1.4 | 69.6 | 450 |
|       |   | -0.027   |       |          |       |      |      |     |
|       |   | MVKA     | 110kV | SBA3     |       |      |      | 450 |
| APD   |   | 0.392    |       |          |       |      |      |     |
| oh1Cb | O | MWVEDENI | 110kV | _544_HO_ | 2.9   | 3.6  | 23.0 | 450 |
|       |   | -0.005   |       |          |       |      |      |     |
|       |   | MHO      | 110kV | SBB1     |       |      |      | 450 |
| APD   |   | 0.910    |       |          |       |      |      |     |
| Trafo | O | MVLM     | 110kV | T103_cmp | -15.1 | -2.1 | 75.9 | 131 |
| 13    |   | -0.097   |       |          |       |      |      |     |
|       |   | MVLM     | 22kV  | SBA1     |       |      |      | 210 |
| APD   |   | -1.316   |       |          |       |      |      |     |

|       |   |       |       |      |      |      |       |       |
|-------|---|-------|-------|------|------|------|-------|-------|
| PQnod | O | MVLM  | 110kV | SBA7 | -1.7 | -0.1 | 116.0 | -6.86 |
| elSn  |   | NetGr |       |      |      |      |       | 110.0 |
| 1     |   |       |       |      |      |      |       |       |

|       |   |      |       |          |      |      |     |    |
|-------|---|------|-------|----------|------|------|-----|----|
| Load  | F | MVLM | 110kV | T102LOAD | -1.7 | -0.1 | 8.5 | 84 |
| ~~~~~ |   |      |       |          |      |      |     |    |
| ~~~~~ |   |      |       |          |      |      |     |    |

| Type    | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |       |       |         |         |
| St2 Flg |    | Qloss   |       |          |       |       |         |         |
| Trafo   | O  | MVLM    | 110kV | T103_cmp | 15.0  | 0.8   | 390.8   | 656     |
| 13      |    | -0.097  |       |          |       |       |         |         |
|         |    | MVLM    | 110kV | SBA7     |       |       |         | 1050    |
| APD     |    | -1.316  |       |          |       |       |         |         |
| PQnod   | O  | MVLM    | 22kV  | SBA1     | -15.0 | -0.8  | 22.19   | -11.10  |
| elSn    |    | NetGr   |       |          |       |       |         | 22.00   |
| 1       |    |         |       |          |       |       |         |         |

|       |   |      |      |          |      |      |       |      |
|-------|---|------|------|----------|------|------|-------|------|
| Load  | O | MVLM | 22kV | SBA1LOAD | -7.5 | -0.4 | 195.4 | 1706 |
| Load  | O | MVLM | 22kV | SBA2LOAD | -7.5 | -0.4 | 195.4 | 1706 |
| ~~~~~ |   |      |      |          |      |      |       |      |
| ~~~~~ |   |      |      |          |      |      |       |      |

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| oh1Cb   | O  | MWVEDENI | 110kV | _567_MAD | 5.2   | 1.3   | 26.2    | 450     |
|         |    | -0.012   |       |          |       |       |         |         |
|         |    | MMAD     | 110kV | SBA      |       |       |         | 450     |
| APD     |    | 1.192    |       |          |       |       |         |         |
| oh1Cb   | O  | MWVEDENI | 110kV | _568_VST | -5.2  | -1.3  | 26.2    | 450     |
|         |    | -0.008   |       |          |       |       |         |         |
|         |    | MSLU     | 110kV | SBA1     |       |       |         | 450     |
| APD     |    | 0.839    |       |          |       |       |         |         |
| PQnod   | F  | MVST     | 110kV | SBB      | 0.0   | 0.0   | 118.2   | -4.28   |

## 01 UCH - zapojení s můstkem T401 + T403

eISn NetGr

110.0

1

~~~~~

| Type
St1
(nodes:
St2 | Nm
Flg
Flg | Station
Ploss
Qloss | VL | Circuit
Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi
Ilim/Vn |
|-------------------------------|------------------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| OhlCb | 0 | MWVEDENI
-0.000
MPRT
1.309 | 110kV
110kV | _556_PRT
SBA | 0.0 | -0.0 | 0.0 | 450
450 |
| APD | | | | | | | | |
| PQnod
eISn | 0 | MWVEDENI
NetGr | 110kV | _556_PRT | -0.0 | 0.0 | 115.3 | -7.38
110.0 |

1

~~~~~

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss            | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|--------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| OhlCb                         | 0                | MWVEDENI<br>-0.396<br>MOKC<br>-0.421 | 110kV<br>110kV | 5576_OKC<br>SBC1   | 44.1  | 6.6   | 219.5   | 450<br>450        |
| APD                           |                  |                                      |                |                    |       |       |         |                   |
| OhlCb                         | 0                | MWVEDENI<br>-0.358<br>MPRT<br>0.286  | 110kV<br>110kV | 5578_PRT<br>SBA    | -31.6 | -5.0  | 157.8   | 450<br>450        |
| APD                           |                  |                                      |                |                    |       |       |         |                   |
| Trafo<br>12                   | 0                | MZDO<br>-0.043<br>MZDO<br>-0.774     | 110kV<br>22kV  | T101_cmp<br>SBA1   | -12.4 | -1.6  | 61.8    | 131<br>131        |
| APD                           |                  |                                      |                |                    |       |       |         |                   |
| PQnod<br>eISn                 | 0                | MZDO<br>NetGr                        | 110kV          | SBA1               | 0.0   | -0.0  | 117.2   | -5.41<br>110.0    |

1

~~~~~

| Type
St1
(nodes:
St2 | Nm
Flg
Flg | Station
Ploss
Qloss | VL | Circuit
Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi
Ilim/Vn |
|-------------------------------|------------------|----------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| Trafo
12 | 0 | MZDO
-0.043
MZDO
-0.774 | 110kV
110kV | T101_cmp
SBA1 | 12.4 | 0.8 | 312.5 | 656
656 |
| APD | | | | | | | | |

01 UCH - zapojení s můstkem T401 + T403

| | | | | | | | | | |
|-------|-------|---|-------|------|----------|-------|------|-------|-------|
| ----- | PQnod | 0 | MZDO | 22kv | SBA1 | -12.4 | -0.8 | 22.96 | -8.60 |
| | elSn | | NetGr | | | | | | 22.00 |
| | 1 | | | | | | | | |
| ----- | | | | | | | | | |
| | Load | 0 | MZDO | 22kv | SBA1LOAD | -6.2 | -0.4 | 156.2 | 1312 |
| | Load | 0 | MZDO | 22kv | SBA2LOAD | -6.2 | -0.4 | 156.2 | 1312 |
| ~~~~~ | | | | | | | | | |
| ~~~~~ | | | | | | | | | |

VYPOČTENÉ HODNOTY

**ZKRATOVÉ POMĚRY PŘI TROJFÁZOVÉM
ZKRATU PŘI ZAPOJENÍ S MŮSTKEM**

02 3f zkraty - zapojení s můstkem T401 + T403

```
=====
Short-Circuit 3-pole  Tue 03.05.11 10:48:54    Start: single    Name:05020906
Copenr:35
=====
```

PROGRAM CHARACTERISTICS

```
-----
388 nodes                222 lines/cables
274 loads                15 busbar couplers
14 generators            205 transformers
38 injections/equiv.injections  0 equivalent branches
                             6 shunts

4 electrical sub-networks
51 limit violations
```

PARAMETER

```
-----
Computation Mode      : all busbars, with contributions
Fault-Type           : 3-phase, L1 - L2 - L3
Motor Consideration: yes
Computation Method    : Equivalent Voltage Source (IEC)
Voltage Factor C      : 1.1
```

FLAGS

```
-----
column1/2
* = diagnosis indication (discrepancies/limit violations)
```

Calculated value
X undefined
i invalid
V limit violation

Indicators for Network Membership

```
-----
O own
S subjacent own
B boundary
F foreign
R result NR
r to reduce
```

Computation formulas for short-circuit calculation 3-pole

```
-----
Pre-fault voltage (Vfault):
- IEC-909      : 1.1*Vnominal
- Superposition : Vactual
Ik" (kA)       : Initial short-circuit current : Ik" = Vfault/(sqrt(3)*Zkk)
Sk" (MVA)      : Initial short-circuit power   : Sk" = sqrt(3)*Vnominal*I"k
Sbrk (MVA)     : Max. short-circuit break. power for CB
                Sbrk = Max(Sk"branch,Sk"bus-Sk"branch)
SbLim (MVA)    : Circuit Breaker breaking power limit
Vrem (kV)     : Voltage at busbar after short-circuit
Phi           : Phase angle
St1/St2       : Transformer tap position
```

```
=====
Type Nm Station VL Circuit S"k Sbrk SbLim
vrem/vfault St1 Flg Busbar) I"k Phi Phivrem
(nodes: St2 Flg
=====
```

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | | |
|-------------|----|----------|-------|----------|--------|--------|-------|----------|
| ohlCb | O | MWVEDENI | 110kV | 5507_BAR | 1420.6 | 1742.3 | 3500 | |
| | | MBHN | 110kV | SBA1 | 7.456 | -80.8 | | |
| ohlCb | O | MWVEDENI | 110kV | 5508_BAR | 1742.3 | 1742.3 | 3500 | |
| | | MOK_D | 110kV | SBA1 | 9.145 | -81.2 | | |
| ----- | | | | | | | | |
| FaultNd | O | MBAR | 110kV | SBA1 | 3162.9 | | 3500 | |
| 0.0/121.0 | | eISn | NetGr | | 16.601 | -81.0 | | 0.0 |
| 1 | | | | | | | | |
| ----- | | | | | | | | |
| Load | F | MBAR | 110kV | T101LOAD | 0.0 | 3162.9 | 3500 | |
| | | | | | 0.000 | 0.0 | | |
| Load | F | MBAR | 110kV | T102LOAD | 0.0 | 3162.9 | 3500 | |
| | | | | | 0.000 | 0.0 | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phi vrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| ohlCb | O | MWVEDENI | 110kV | 5506_BHN | 2471.2 | 2471.2 | 5000 | |
| | | MOKC | 110kV | SBB1 | 12.970 | -81.6 | | |
| ohlCb | O | MWVEDENI | 110kV | 5507_BAR | 865.5 | 2471.2 | 3500 | |
| | | MBAR | 110kV | SBA1 | 4.543 | -81.7 | | |
| Trafo | O | MBHN | 110kV | T101_cmp | 0.0 | 3336.7 | 3500 | |
| | 13 | MBHN | 22kV | SBA | 0.000 | 0.0 | | |
| Trafo | O | MBHN | 110kV | T102_cmp | 0.0 | 3336.7 | 3500 | |
| | 14 | MBHN | 22kV | SBB | 0.000 | -180.0 | | |
| ----- | | | | | | | | |
| FaultNd | O | MBHN | 110kV | SBA1 | 3336.7 | | 3500 | |
| 0.0/121.0 | | eISn | NetGr | | 17.513 | -81.7 | | 0.0 |
| 1 | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phi vrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| Trafo | O | MBHN | 110kV | T101_cmp | 359.4 | 359.4 | 600 | |
| | 13 | MBHN | 110kV | SBA1 | 9.431 | -86.8 | | |

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | |
|---------|------|-------|------|-----|-------|-------|------|
| FaultNd | 0 | MBHN | 22kV | SBA | 359.4 | 600 | 0.0/ |
| 24.2 | elSn | NetGr | | | 9.431 | -86.8 | 0.0 |
| 1 | | | | | | | |

| | | | | | | | |
|------|---|------|------|---------|-------|-------|-----|
| Load | 0 | MBHN | 22kV | SBALOAD | 0.0 | 359.4 | 600 |
| | | | | | 0.000 | 0.0 | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|---------|-----|------|---------|
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | st2 Flg | | | | | |

| | | | | | | | |
|-------|----|------|-------|----------|-------|-------|-----|
| Trafo | 0 | MBHN | 110kV | T102_cmp | 362.0 | 362.0 | 600 |
| | 14 | MBHN | 110kV | SBA1 | 9.499 | -87.7 | |

| | | | | | | | |
|---------|------|-------|------|-----|-------|-------|------|
| FaultNd | 0 | MBHN | 22kV | SBB | 362.0 | 600 | 0.0/ |
| 24.2 | elSn | NetGr | | | 9.499 | -87.7 | 0.0 |
| 1 | | | | | | | |

| | | | | | | | |
|------|---|------|------|---------|-------|-------|-----|
| Load | 0 | MBHN | 22kV | SBBLOAD | 0.0 | 362.0 | 600 |
| | | | | | 0.000 | 0.0 | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|---------|-----|------|---------|
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | st2 Flg | | | | | |

| | | | | | | | |
|-------|---|----------|-------|----------|-------|-------|------|
| ohlcb | 0 | MWVEDENI | 110kV | _559_CHR | 949.6 | 949.6 | 5000 |
| | | MOKC | 110kV | SBB1 | 4.984 | -72.4 | |

| | | | | | | | |
|-----------|------|-------|-------|------|-------|-------|-----|
| FaultNd | F | MCHR | 110kV | SBA1 | 949.6 | 3500 | |
| 0.0/121.0 | elSn | NetGr | | | 4.984 | -72.4 | 0.0 |
| 1 | | | | | | | |

| | | | | | | | |
|------|---|------|-------|----------|-------|-------|------|
| Load | F | MCHR | 110kV | T102LOAD | 0.0 | 949.6 | 3500 |
| | | | | | 0.000 | 0.0 | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|---------|-----|------|---------|
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | st2 Flg | | | | | |

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | | |
|-------------|----|----------|-------|----------|---------|--------|-------|---------|
| ohlCb | O | MWVEDENI | 110kV | 5518_FA_ | 1399.6 | 1399.6 | 5000 | |
| | | MOKC | 110kV | SBC1 | 7.346 | -81.0 | | |
| ohlCb | O | MWVEDENI | 110kV | 5519_FA_ | 1399.6 | 1399.6 | 5000 | |
| | | MOKC | 110kV | SBB1 | 7.346 | -81.0 | | |
| FaultNd | O | MFA | 110kV | SBA1 | 2799.1 | | 3500 | |
| 0.0/121.0 | | eISn | NetGr | | 14.692 | -81.0 | | 0.0 |
| 1 | | | | | | | | |
| Load | F | MFA | 110kV | T102LOAD | 0.0 | 2799.1 | 3500 | |
| | | | | | 0.000 | 0.0 | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 | Flg | | | | | |
| Trafo | O | MHO | 110kV | T8_cmp | 403.3 | 426.5 | 600 | |
| | | MHO | 110kV | SBA1 | 23.287 | -85.7 | | |
| *FaultNd | O | MHO | 10kV | SBA3 | 829.9 V | | 600 | 0.0/ |
| 11.0 | | eISn | NetGr | | 47.913 | -85.8 | | 0.0 |
| 1 | | | | | | | | |
| Gen | F | MHO | 10kV | GEN3cmp | 426.5 | 426.5 | 600 | |
| | | | | | 24.626 | -86.0 | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 | Flg | | | | | |
| Trafo | O | MHO | 110kV | T10_cmp | 403.3 | 426.5 | 600 | |
| | | MHO | 110kV | SBA1 | 23.287 | -85.7 | | |
| *FaultNd | O | MHO | 10kV | SBA4 | 829.9 V | | 600 | 0.0/ |
| 11.0 | | eISn | NetGr | | 47.913 | -85.8 | | 0.0 |
| 1 | | | | | | | | |
| Gen | F | MHO | 10kV | GEN.4cmp | 426.5 | 426.5 | 600 | |

02 3f zkraty - zapojení s můstkem T401 + T403
24.626 -86.0

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| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|---------|----------|---------|----------|--------|--------|---------|
| vrem/vfault | | | St1 Flg | (Busbar) | I"k | Phi | PhiVrem |
| (nodes: | St2 Flg | | | | | | |
| ohlCb | O | MWVEDENI | 110kV | _533_HO_ | 311.3 | 1205.2 | 3500 |
| | | MTD | 110kV | SB.A | 1.634 | -79.0 | |
| ohlCb | O | MWVEDENI | 110kV | _534_HO_ | 165.1 | 1351.3 | 3500 |
| | | MWVEDSBV | 110kV | _534_A | 0.867 | -78.5 | |
| ohlCb | O | MWVEDENI | 110kV | _535_HO_ | 252.7 | 1264.6 | 5000 |
| | | MSO | 110kV | SBA1 | 1.326 | -76.1 | |
| ohlCb | O | MWVEDENI | 110kV | _536_HO_ | 259.0 | 1257.6 | 5000 |
| | | MSO | 110kV | SBA1 | 1.359 | -78.5 | |
| Trafo | O | MHO | 110kV | T10_cmp | 266.4 | 1251.5 | 3500 |
| | | MHO | 10kV | SBA4 | 1.398 | -87.2 | |
| Trafo | O | MHO | 110kV | T13_cmp | 0.0 | 1516.2 | 2500 |
| | 12 | MHO | 22kV | SBA | 0.000 | -180.0 | |
| Trafo | O | MHO | 110kV | T8_cmp | 266.4 | 1251.5 | 3500 |
| | | MHO | 10kV | SBA3 | 1.398 | -87.2 | |
| FaultNd | O | MHO | 110kV | SBA1 | 1516.2 | | 3500 |
| 0.0/121.0 | | eISn | NetGr | | 7.958 | -81.2 | 0.0 |
| | 1 | | | | | | |
| Load | O | MHO | 110kV | T12LOAD | 0.0 | 1516.2 | 3500 |
| | | | | | 0.000 | 0.0 | |

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| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|---------|----------|---------|----------|-------|-------|---------|
| vrem/vfault | | | St1 Flg | (Busbar) | I"k | Phi | PhiVrem |
| (nodes: | St2 Flg | | | | | | |
| ohlCb | O | MWVEDENI | 110kV | _541_HO_ | 313.9 | 585.2 | 3500 |
| | | MKY | 110kV | SBA1 | 1.648 | -75.4 | |
| ohlCb | O | MWVEDENI | 110kV | _542_HO_ | 264.6 | 634.6 | 3500 |
| | | MPNV | 110kV | SBA1 | 1.389 | -75.7 | |

02 3f zkratý - zapojení s mŕstkem T401 + T403
 ohlCb O MWVEDENI 110kV \_544\_HO\_ 320.7 578.5 3500
 MVLM 110kV SBA7 1.683 -74.5

FaultNd O MHO 110kV SBB1 899.1 3500
 0.0/121.0 eISn NetGr
 4.719 -75.2 0.0
 1

=====
 Type Nm Station VL Circuit S"k Sbrk SbLim
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
 (nodes: st2 Flg
 =====

Trafo O MHO 110kV T13\_cmp 331.5 331.5 600
 12 MHO 110kV SBA1 8.699 -85.8

FaultNd O MHO 22kV SBA 331.5 600 0.0/
 24.2 eISn NetGr
 8.699 -85.8 0.0
 1

Load O MHO 22kV SBALOAD 0.0 331.5 600
 0.000 0.0

=====
 Type Nm Station VL Circuit S"k Sbrk SbLim
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
 (nodes: st2 Flg
 =====

ohlCb O MWVEDENI 110kV \_550\_HUN 1346.8 1346.8 5000
 MOKC 110kV SBC1 7.069 -72.0
 Trafo O MHUN 110kV T102\_cmp 0.0 1346.8 3500
 12 MHUN 22kV SBA 0.000 -180.0

FaultNd O MHUN 110kV SBA1 1346.8 3500
 0.0/121.0 eISn NetGr
 7.069 -72.0 0.0
 1

=====
 Type Nm Station VL Circuit S"k Sbrk SbLim
 Vrem/Vfault St1 Flg Busbar) I"k Phi Phivrem
 (nodes: st2 Flg
 =====

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | | |
|-------------|------|----------|-------|----------|-------|--------|-------|---------|
| ===== | | | | | | | | |
| Trafo | O | MHUN | 110kv | T102_cmp | 308.5 | 308.5 | 600 | |
| | 12 | MHUN | 110kv | SBA1 | 8.097 | -84.4 | | |
| ----- | | | | | | | | |
| FaultNd | O | MHUN | 22kv | SBA | 308.5 | | 600 | 0.0/ |
| 24.2 | eISn | NetGr | | | 8.097 | -84.4 | | 0.0 |
| ----- | | | | | | | | |
| 1 | | | | | | | | |
| ----- | | | | | | | | |
| Load | O | MHUN | 22kv | SBALOAD | 0.0 | 308.5 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| Load | O | MHUN | 22kv | SBBLOAD | 0.0 | 308.5 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| Oh1Cb | O | MWVEDENI | 110kv | 5594_KNC | 476.9 | 476.9 | 3500 | |
| | | MPRT | 110kv | SBA | 2.503 | -72.7 | | |
| Trafo | O | MKNC | 110kv | T102_cmp | 0.0 | 476.9 | 3500 | |
| | 12 | MKNC | 22kv | SBA1 | 0.000 | -180.0 | | |
| ----- | | | | | | | | |
| FaultNd | O | MKNC | 110kv | SBA1 | 476.9 | | 3500 | |
| 0.0/121.0 | eISn | NetGr | | | 2.503 | -72.7 | | 0.0 |
| ----- | | | | | | | | |
| 1 | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| Trafo | O | MKNC | 110kv | T102_cmp | 162.2 | 162.2 | 600 | |
| | 12 | MKNC | 110kv | SBA1 | 4.258 | -82.3 | | |
| ----- | | | | | | | | |
| FaultNd | O | MKNC | 22kv | SBA1 | 162.2 | | 600 | 0.0/ |
| 24.2 | eISn | NetGr | | | 4.258 | -82.3 | | 0.0 |
| ----- | | | | | | | | |
| 1 | | | | | | | | |
| ----- | | | | | | | | |
| Load | O | MKNC | 22kv | SBA1LOAD | 0.0 | 162.2 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| Load | O | MKNC | 22kv | SBA2LOAD | 0.0 | 162.2 | 600 | |

02 3f zkraty - zapojení s můstkem T401 + T403

0.000 0.0

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| Type        | Nm | Station  | VL      | Circuit  | S"k   | Sbrk   | SbLim   |
|-------------|----|----------|---------|----------|-------|--------|---------|
| Vrem/Vfault |    |          | St1 Flg | (Busbar) | I"k   | Phi    | PhiVrem |
| (nodes:     |    | St2 Flg  |         |          |       |        |         |
| ohlCb       | O  | MWVEDENI | 110kV   | _546_KUN | 691.1 | 691.1  | 5000    |
|             |    | MOKC     | 110kV   | SBA1     | 3.627 | -76.9  |         |
| ohlCb       | O  | MWVEDENI | 110kV   | 5540_KUN | 247.2 | 691.1  | 3500    |
|             |    | MNA_D    | 110kV   | SBA1     | 1.298 | -74.6  |         |
| Trafo       | F  | MKUN     | 110kV   | T101_cmp | 0.0   | 938.1  | 3500    |
|             | 13 | MKUN     | 22kV    | SBB1     | 0.000 | -180.0 |         |

|           |   |      |       |      |       |       |      |
|-----------|---|------|-------|------|-------|-------|------|
| FaultNd   | O | MKUN | 110kV | SBA1 | 938.1 |       | 3500 |
| 0.0/121.0 |   | eISn | NetGr |      | 4.924 | -76.3 | 0.0  |
|           | 1 |      |       |      |       |       |      |

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| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|----------|-------|-------|---------|
| Vrem/Vfault | | | St1 Flg | (Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 Flg | | | | | |
| Trafo | F | MKUN | 110kV | T101_cmp | 287.7 | 287.7 | 600 |
| | 13 | MKUN | 110kV | SBA1 | 7.550 | -83.6 | |

| | | | | | | | |
|---------|---|------|-------|------|-------|-------|------|
| FaultNd | O | MKUN | 22kV | SBB1 | 287.7 | | 600 |
| 24.2 | | eISn | NetGr | | 7.550 | -83.6 | 0.0/ |
| | 1 | | | | | | 0.0 |

| | | | | | | | |
|------|---|------|------|----------|-------|-------|-----|
| Load | O | MKUN | 22kV | SBB1LOAD | 0.0 | 287.7 | 600 |
| | | | | | 0.000 | 0.0 | |
| Load | O | MKUN | 22kV | SBB2LOAD | 0.0 | 287.7 | 600 |
| | | | | | 0.000 | 0.0 | |

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| Type        | Nm | Station  | VL      | Circuit  | S"k   | Sbrk  | SbLim   |
|-------------|----|----------|---------|----------|-------|-------|---------|
| Vrem/Vfault |    |          | St1 Flg | (Busbar) | I"k   | Phi   | PhiVrem |
| (nodes:     |    | St2 Flg  |         |          |       |       |         |
| ohlCb       | O  | MWVEDENI | 110kV   | _541_HO_ | 367.5 | 486.3 | 3500    |

02 3f zkraty - zapojení s můstkem T401 + T403

|             |    |          |       |          |       |        |       |         |
|-------------|----|----------|-------|----------|-------|--------|-------|---------|
|             |    | MHO      | 110kV | SBB1     | 1.929 | -74.3  |       |         |
| OhlCb       | O  | MWVEDENI | 110kV | _545_KY_ | 464.6 | 464.6  | 5000  |         |
|             |    | MOKC     | 110kV | SBA1     | 2.439 | -75.3  |       |         |
| Trafo       | O  | MKY      | 110kV | T101_cmp | 22.1  | 832.1  | 3500  |         |
|             | 13 | MKY      | 22kV  | SBA1     | 0.116 | -86.6  |       |         |
| Trafo       | O  | MKY      | 110kV | T102_cmp | 0.0   | 853.7  | 3500  |         |
|             | 13 | MKY      | 22kV  | SBB1     | 0.000 | -180.0 |       |         |
| -----       |    |          |       |          |       |        |       |         |
| FaultNd     | O  | MKY      | 110kV | SBA1     | 853.7 |        | 3500  |         |
| 0.0/121.0   |    | eISn     | NetGr |          | 4.481 | -75.1  |       | 0.0     |
|             | 1  |          |       |          |       |        |       |         |
| ~~~~~       |    |          |       |          |       |        |       |         |
| ~~~~~       |    |          |       |          |       |        |       |         |
| =====       |    |          |       |          |       |        |       |         |
| Type        | Nm | Station  | VL    | Circuit  | S"k   | Sbrk   | SbLim |         |
| Vrem/Vfault |    | St1      | Flg   | Busbar)  | I"k   | Phi    |       | Phivrem |
| (nodes:     |    | St2      | Flg   |          |       |        |       |         |
| =====       |    |          |       |          |       |        |       |         |
| OhlCb       | O  | MKY      | 22kV  | V352     | 119.1 | 140.9  | 600   |         |
|             |    | MKY      | 22kV  | SBA1     | 3.126 | -80.6  |       |         |
| OhlCb       | O  | MKY      | 22kV  | V353     | 119.1 | 140.9  | 600   |         |
|             |    | MKY      | 22kV  | SBA1     | 3.126 | -80.6  |       |         |
| Trafo       | O  | MKY      | 22kV  | BAT01cmp | 21.9  | 238.2  | 800   |         |
|             |    | MKY      | 6kV   | SBV.T01  | 0.574 | -86.8  |       |         |
| -----       |    |          |       |          |       |        |       |         |
| FaultNd     | O  | MKY      | 22kV  | SBA      | 260.0 |        | 600   | 0.0/    |
| 24.2        |    | eISn     | NetGr |          | 6.823 | -81.1  |       | 0.0     |
|             | 1  |          |       |          |       |        |       |         |
| ~~~~~       |    |          |       |          |       |        |       |         |
| ~~~~~       |    |          |       |          |       |        |       |         |
| =====       |    |          |       |          |       |        |       |         |
| Type        | Nm | Station  | VL    | Circuit  | S"k   | Sbrk   | SbLim |         |
| Vrem/Vfault |    | St1      | Flg   | Busbar)  | I"k   | Phi    |       | Phivrem |
| (nodes:     |    | St2      | Flg   |          |       |        |       |         |
| =====       |    |          |       |          |       |        |       |         |
| OhlCb       | O  | MKY      | 22kV  | V352     | 10.8  | 291.5  | 600   |         |
|             |    | MKY      | 22kV  | SBA      | 0.282 | -86.5  |       |         |
| OhlCb       | O  | MKY      | 22kV  | V353     | 10.8  | 291.5  | 600   |         |
|             |    | MKY      | 22kV  | SBA      | 0.282 | -86.5  |       |         |

|                                               |      |         |         |          |       |        |       |         |
|-----------------------------------------------|------|---------|---------|----------|-------|--------|-------|---------|
| 02 3f zkratý - zapojení s můstkem T401 + T403 |      |         |         |          |       |        |       |         |
| Trafo                                         | O    | MKY     | 110kV   | T101_cmp | 280.8 | 280.8  | 600   |         |
|                                               | 13   | MKY     | 110kV   | SBA1     | 7.369 | -82.7  |       |         |
| -----                                         |      |         |         |          |       |        |       |         |
| FaultNd                                       | O    | MKY     | 22kV    | SBA1     | 302.3 |        | 600   | 0.0/    |
| 24.2                                          | elSn | NetGr   |         |          | 7.932 | -83.0  |       | 0.0     |
|                                               | 1    |         |         |          |       |        |       |         |
| -----                                         |      |         |         |          |       |        |       |         |
| Load                                          | O    | MKY     | 22kV    | SBA1LOAD | 0.0   | 302.3  | 600   |         |
|                                               |      |         |         |          | 0.000 | 0.0    |       |         |
| Load                                          | O    | MKY     | 22kV    | SBA2LOAD | 0.0   | 302.3  | 600   |         |
|                                               |      |         |         |          | 0.000 | 0.0    |       |         |
| ~~~~~                                         |      |         |         |          |       |        |       |         |
| ~~~~~                                         |      |         |         |          |       |        |       |         |
| =====                                         |      |         |         |          |       |        |       |         |
| Type                                          | Nm   | Station | VL      | Circuit  | S"k   | Sbrk   | SbLim |         |
| Vrem/Vfault                                   |      |         | St1 Flg |          | I"k   | Phi    |       | PhiVrem |
| (nodes:                                       |      | St2 Flg |         | Busbar)  |       |        |       |         |
| =====                                         |      |         |         |          |       |        |       |         |
| ohlCb                                         | O    | MKY     | 22kV    | V19      | 255.0 | 255.0  | 600   |         |
|                                               |      | MKY     | 22kV    | SBB1     | 6.693 | -79.0  |       |         |
| -----                                         |      |         |         |          |       |        |       |         |
| FaultNd                                       | O    | MKY     | 22kV    | SBB      | 255.0 |        | 600   | 0.0/    |
| 24.2                                          | elSn | NetGr   |         |          | 6.693 | -79.0  |       | 0.0     |
|                                               | 1    |         |         |          |       |        |       |         |
| ~~~~~                                         |      |         |         |          |       |        |       |         |
| ~~~~~                                         |      |         |         |          |       |        |       |         |
| =====                                         |      |         |         |          |       |        |       |         |
| Type                                          | Nm   | Station | VL      | Circuit  | S"k   | Sbrk   | SbLim |         |
| Vrem/Vfault                                   |      |         | St1 Flg |          | I"k   | Phi    |       | PhiVrem |
| (nodes:                                       |      | St2 Flg |         | Busbar)  |       |        |       |         |
| =====                                         |      |         |         |          |       |        |       |         |
| ohlCb                                         | O    | MKY     | 22kV    | V19      | 0.0   | 271.6  | 600   |         |
|                                               |      | MKY     | 22kV    | SBB      | 0.000 | -180.0 |       |         |
| Trafo                                         | O    | MKY     | 110kV   | T102_cmp | 271.6 | 271.6  | 600   |         |
|                                               | 13   | MKY     | 110kV   | SBA1     | 7.127 | -83.9  |       |         |
| -----                                         |      |         |         |          |       |        |       |         |
| FaultNd                                       | O    | MKY     | 22kV    | SBB1     | 271.6 |        | 600   | 0.0/    |
| 24.2                                          | elSn | NetGr   |         |          | 7.127 | -83.9  |       | 0.0     |
|                                               | 1    |         |         |          |       |        |       |         |
| -----                                         |      |         |         |          |       |        |       |         |
| Load                                          | O    | MKY     | 22kV    | SBB1LOAD | 0.0   | 271.6  | 600   |         |
|                                               |      |         |         |          | 0.000 | 0.0    |       |         |
| Load                                          | O    | MKY     | 22kV    | SBB2LOAD | 0.0   | 271.6  | 600   |         |
|                                               |      |         |         |          | 0.000 | 0.0    |       |         |
| ~~~~~                                         |      |         |         |          |       |        |       |         |

## 02 3f zkraty - zapojení s můstkem T401 + T403

| Type        | Nm      | Station | VL      | Circuit  | S"k   | Sbrk  | SbLim |         |
|-------------|---------|---------|---------|----------|-------|-------|-------|---------|
| Vrem/Vfault |         |         | St1 Flg | Busbar)  | I"k   | Phi   |       | PhiVrem |
| (nodes:     | st2 Flg |         |         |          |       |       |       |         |
| Trafo       | O       | MKY     | 6kv     | B1T01cmp | 55.5  | 55.5  | 600   |         |
|             |         | MKY     | 6kv     | SBV.T01  | 5.084 | -87.0 |       |         |
| FaultNd     | O       | MKY     | 6kv     | B1T01cmp | 55.5  |       | 600   | 0.0/    |
| 6.9         | elSn    | NetGr   |         |          | 5.084 | -87.0 |       | 0.0     |
|             | 1       |         |         |          |       |       |       |         |

| Type        | Nm      | Station | VL      | Circuit  | S"k   | Sbrk   | SbLim |         |
|-------------|---------|---------|---------|----------|-------|--------|-------|---------|
| Vrem/Vfault |         |         | St1 Flg | Busbar)  | I"k   | Phi    |       | PhiVrem |
| (nodes:     | st2 Flg |         |         |          |       |        |       |         |
| Trafo       | O       | MKY     | 22kv    | BAT01cmp | 73.6  | 73.6   | 600   |         |
|             |         | MKY     | 22kv    | SBA      | 6.742 | -84.9  |       |         |
| Trafo       | O       | MKY     | 6kv     | B1T01cmp | 0.0   | 103.2  | 600   |         |
|             |         | MKY     | 6kv     | B1T01cmp | 0.000 | -180.0 |       |         |
| Trafo       | O       | MKY     | 6kv     | B3T01cmp | 29.6  | 73.6   | 600   |         |
|             |         | MKY     | 6kv     | SBV.TG3  | 2.716 | -86.8  |       |         |
| FaultNd     | O       | MKY     | 6kv     | SBV.T01  | 103.2 |        | 600   | 0.0/    |
| 6.9         | elSn    | NetGr   |         |          | 9.457 | -85.5  |       | 0.0     |
|             | 1       |         |         |          |       |        |       |         |

| Type        | Nm      | Station | VL      | Circuit  | S"k   | Sbrk  | SbLim |         |
|-------------|---------|---------|---------|----------|-------|-------|-------|---------|
| Vrem/Vfault |         |         | St1 Flg | Busbar)  | I"k   | Phi   |       | PhiVrem |
| (nodes:     | st2 Flg |         |         |          |       |       |       |         |
| Trafo       | O       | MKY     | 6kv     | B3T01cmp | 47.2  | 47.2  | 600   |         |
|             |         | MKY     | 6kv     | SBV.T01  | 4.329 | -86.3 |       |         |
| FaultNd     | O       | MKY     | 6kv     | SBV.TG3  | 88.8  |       | 600   | 0.0/    |
| 6.9         | elSn    | NetGr   |         |          | 8.138 | -86.1 |       | 0.0     |

## 02 3f zkraty - zapojení s můstkem T401 + T403

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|     |   |     |     |          |               |               |     |
|-----|---|-----|-----|----------|---------------|---------------|-----|
| Gen | F | MKY | 6kV | GEN.3cmp | 41.6<br>3.808 | 47.2<br>-86.0 | 600 |
|-----|---|-----|-----|----------|---------------|---------------|-----|

| Type<br>vrem/vfault<br>(nodes: | Nm | Station  | VL<br>St1 Flg | Circuit<br>Busbar) | S"k<br>I"k | Sbrk<br>Phi | SbLim<br>Phivrem |
|--------------------------------|----|----------|---------------|--------------------|------------|-------------|------------------|
| ohlCb                          | O  | MWVEDENI | 110kV         | 5573_MAD           | 37.0       | 3312.0      | 3500             |
|                                |    | MSVI     | 110kV         | SBV.T114           | 0.194      | -85.1       |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | 5501_MAD           | 813.3      | 2535.9      | 5000             |
|                                |    | MOKC     | 110kV         | SBB1               | 4.268      | -80.1       |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | _567_MAD           | 0.0        | 3348.9      | 3500             |
|                                |    | MVST     | 110kV         | SBB                | 0.000      | 0.0         |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | 5509_MAD           | 786.0      | 2563.1      | 5000             |
|                                |    | MMLE     | 110kV         | SBA1               | 4.125      | -82.1       |                  |
| BBC                            | O  | MMAD     | 110kV         | SP1cmp             | 1713.0     | 1713.0      | 3500             |
|                                |    | MMAD     | 110kV         | SBB                | 8.991      | -81.3       |                  |

|           |      |       |       |     |        |       |      |
|-----------|------|-------|-------|-----|--------|-------|------|
| FaultNd   | O    | MMAD  | 110kV | SBA | 3348.9 |       | 5000 |
| 0.0/121.0 | eISn | NetGr |       |     | 17.577 | -81.3 | 0.0  |

1

| Type<br>vrem/vfault<br>(nodes: | Nm | Station  | VL<br>St1 Flg | Circuit<br>Busbar) | S"k<br>I"k | Sbrk<br>Phi | SbLim<br>Phivrem |
|--------------------------------|----|----------|---------------|--------------------|------------|-------------|------------------|
| ohlCb                          | O  | MWVEDENI | 110kV         | 5572_MAD           | 58.4       | 3290.8      | 3500             |
|                                |    | MSVI     | 110kV         | SBV.T115           | 0.306      | -87.0       |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | 5574_MAD           | 0.0        | 3348.9      | 3500             |
|                                |    | MSLU     | 110kV         | SBA1               | 0.000      | 0.0         |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | 5502_MAD           | 813.3      | 2535.9      | 5000             |
|                                |    | MOKC     | 110kV         | SBB1               | 4.268      | -80.1       |                  |
| ohlCb                          | O  | MWVEDENI | 110kV         | 5503_MAD           | 841.9      | 2507.1      | 5000             |
|                                |    | MOKC     | 110kV         | SBC1               | 4.419      | -82.0       |                  |

02 3f zkratý - zapojení s můstkem T401 + T403

|             |    |         |       |          |         |          |       |         |
|-------------|----|---------|-------|----------|---------|----------|-------|---------|
| BBC         | O  | MMAD    | 110kV | SP1cmp   | 1635.9  | 1713.0   | 3500  |         |
|             |    | MMAD    | 110kV | SBA      | 8.586   | -81.2    |       |         |
| *Trafo      | O  | MMAD    | 110kV | T101_cmp | 0.0 V   | 3348.9 V | 2500  |         |
|             | 13 | MMAD    | 22kV  | SBA      | 0.000 V | 0.0      |       |         |
| *Trafo      | O  | MMAD    | 110kV | T102_cmp | 0.0 V   | 3348.9 V | 2500  |         |
|             | 13 | MMAD    | 22kV  | SBB3     | 0.000 V | 0.0      |       |         |
| -----       |    |         |       |          |         |          |       |         |
| E FaultNd   | O  | MMAD    | 110kV | SBB      | 3348.9  |          | 5000  |         |
| 0.0/121.0   |    | eISn    | NetGr |          | 17.577  | -81.3    |       | 0.0     |
|             | 1  |         |       |          |         |          |       |         |
| ~~~~~       |    |         |       |          |         |          |       |         |
| =====       |    |         |       |          |         |          |       |         |
| Type        | Nm | Station | VL    | Circuit  | S"k     | Sbrk     | SbLim |         |
| Vrem/Vfault |    | St1     | Flg   | Busbar)  | I"k     | Phi      |       | PhiVrem |
| (nodes:     |    | St2     | Flg   |          |         |          |       |         |
| =====       |    |         |       |          |         |          |       |         |
| Trafo       | O  | MMAD    | 110kV | T101_cmp | 235.2   | 235.2    | 600   |         |
|             | 13 | MMAD    | 110kV | SBB      | 6.172   | -87.7    |       |         |
| -----       |    |         |       |          |         |          |       |         |
| FaultNd     | O  | MMAD    | 22kV  | SBA      | 235.2   |          | 600   | 0.0/    |
| 24.2        |    | eISn    | NetGr |          | 6.172   | -87.7    |       | 0.0     |
|             | 1  |         |       |          |         |          |       |         |
| -----       |    |         |       |          |         |          |       |         |
| Load        | O  | MMAD    | 22kV  | SBALOAD  | 0.0     | 235.2    | 600   |         |
|             |    |         |       |          | 0.000   | 0.0      |       |         |
| ~~~~~       |    |         |       |          |         |          |       |         |
| =====       |    |         |       |          |         |          |       |         |
| Type        | Nm | Station | VL    | Circuit  | S"k     | Sbrk     | SbLim |         |
| Vrem/Vfault |    | St1     | Flg   | Busbar)  | I"k     | Phi      |       | PhiVrem |
| (nodes:     |    | St2     | Flg   |          |         |          |       |         |
| =====       |    |         |       |          |         |          |       |         |
| Trafo       | O  | MMAD    | 110kV | T102_cmp | 359.6   | 359.6    | 600   |         |
|             | 13 | MMAD    | 110kV | SBB      | 9.436   | -86.7    |       |         |
| -----       |    |         |       |          |         |          |       |         |
| FaultNd     | O  | MMAD    | 22kV  | SBB3     | 359.6   |          | 600   | 0.0/    |
| 24.2        |    | eISn    | NetGr |          | 9.436   | -86.7    |       | 0.0     |
|             | 1  |         |       |          |         |          |       |         |
| -----       |    |         |       |          |         |          |       |         |
| Load        | O  | MMAD    | 22kV  | SBB1LOAD | 0.0     | 359.6    | 600   |         |
|             |    |         |       |          | 0.000   | 0.0      |       |         |

02 3f zkratý - zapojení s mûstkem T401 + T403  
 Load O MMAD 22kV SBB2LOAD 0.0 359.6 600  
 0.000 0.0

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=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 vrem/vfault St1 Flg  
 (nodes: Busbar) I"k Phi Phivrem  
 St2 Flg  
 =====

oh1Cb O MWVEDENI 110kV 5504\_MLE 2889.3 2889.3 3500  
 MOKC 110kV SBC1 15.165 -83.7  
 oh1Cb O MWVEDENI 110kV 5509\_MAD 592.8 2889.3 3500  
 MMAD 110kV SBA 3.112 -77.4

-----  
 FaultNd O MMLE 110kV SBA1 3479.2 3500  
 0.0/121.0 e1Sn NetGr  
 18.261 -82.6 0.0  
 1

-----  
 Load F MMLE 110kV T101LOAD 0.0 3479.2 3500  
 0.000 0.0

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=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 vrem/vfault St1 Flg  
 (nodes: Busbar) I"k Phi Phivrem  
 St2 Flg  
 =====

oh1Cb O MWVEDENI 110kV \_547\_NAD 280.5 582.6 3500  
 MPNV 110kV SBA1 1.472 -74.1  
 oh1Cb O MWVEDENI 110kV 5540\_KUN 582.6 582.6 3500  
 MKUN 110kV SBA1 3.058 -76.5

-----  
 FaultNd O MNA\_D 110kV SBA1 863.0 3500  
 0.0/121.0 e1Sn NetGr  
 4.530 -75.7 0.0  
 1

-----  
 Load F MNA\_D 110kV T102LOAD 0.0 863.0 3500  
 0.000 0.0  
 Load F MNA\_D 110kV T1LOAD 0.0 863.0 3500  
 0.000 0.0

~~~~~  
 ~~~~~

=====  
 Type Nm Station VL Circuit S"k Sbrk SbLim  
 vrem/vfault St1 Flg  
 (nodes: Busbar) I"k Phi Phivrem

## 02 3f zkraty - zapojení s můstkem T401 + T403

St2 Flg

| Type        | Nm | Station  | VL      | Circuit  | S"k   | Sbrk  | SbLim | Phi | Vrem |
|-------------|----|----------|---------|----------|-------|-------|-------|-----|------|
| vrem/vfault |    |          | St1 Flg | Busbar)  | I"k   | Phi   |       |     |      |
| (nodes:     |    | St2 Flg  |         |          |       |       |       |     |      |
| ohlCb       | O  | MWVEDENI | 110kV   | 5575_NZD | 600.8 | 600.8 | 3500  |     |      |
|             |    | MOKC     | 110kV   | SBB1     | 3.153 | -75.5 |       |     |      |
| ohlCb       | O  | MWVEDENI | 110kV   | 5577_NZD | 294.4 | 600.8 | 3500  |     |      |
|             |    | MPRT     | 110kV   | SBA      | 1.545 | -75.5 |       |     |      |
| FaultNd     | O  | MNZ_D    | 110kV   | SBA1     | 895.1 |       | 3500  |     |      |
| 0.0/121.0   |    | eISn     | NetGr   |          | 4.698 | -75.5 |       |     | 0.0  |
| 1           |    |          |         |          |       |       |       |     |      |
| Load        | F  | MNZ_D    | 110kV   | T101LOAD | 0.0   | 895.1 | 3500  |     |      |
|             |    |          |         |          | 0.000 | 0.0   |       |     |      |
| Load        | F  | MNZ_D    | 110kV   | T111LOAD | 0.0   | 895.1 | 3500  |     |      |
|             |    |          |         |          | 0.000 | 0.0   |       |     |      |

| Type        | Nm | Station | VL      | Circuit  | S"k    | Sbrk  | SbLim | Phi | Vrem |
|-------------|----|---------|---------|----------|--------|-------|-------|-----|------|
| vrem/vfault |    |         | St1 Flg | Busbar)  | I"k    | Phi   |       |     |      |
| (nodes:     |    | St2 Flg |         |          |        |       |       |     |      |
| Trafo       | F  | MOKC    | 10kV    | T401_cmp | 471.7  | 471.7 | 600   |     |      |
|             |    | MOKC    | 110kV   | SBV.T401 | 27.234 | -88.7 |       |     |      |
| FaultNd     | O  | MOKC    | 10kV    | SBT401   | 471.7  |       | 600   |     | 0.0/ |
| 11.0        |    | eISn    | NetGr   |          | 27.234 | -88.7 |       |     | 0.0  |
| 1           |    |         |         |          |        |       |       |     |      |
| Load        | O  | MOKC    | 10kV    | SBT401LO | 0.0    | 471.7 | 600   |     |      |
|             |    |         |         |          | 0.000  | 0.0   |       |     |      |

| Type        | Nm | Station | VL      | Circuit  | S"k    | Sbrk  | SbLim | Phi | Vrem |
|-------------|----|---------|---------|----------|--------|-------|-------|-----|------|
| vrem/vfault |    |         | St1 Flg | Busbar)  | I"k    | Phi   |       |     |      |
| (nodes:     |    | St2 Flg |         |          |        |       |       |     |      |
| Trafo       | F  | MOKC    | 10kV    | T402_cmp | 257.8  | 257.8 | 600   |     |      |
|             |    | MOKC    | 110kV   | SBV.T402 | 14.881 | -89.5 |       |     |      |
| FaultNd     | O  | MOKC    | 10kV    | SBT402   | 257.8  |       | 600   |     | 0.0/ |
| 11.0        |    | eISn    | NetGr   |          | 14.881 | -89.5 |       |     | 0.0  |
| 1           |    |         |         |          |        |       |       |     |      |

## 02 3f zkraty - zapojení s můstkem T401 + T403

| Load        | O    | MOKC     | 10kV    | SBT402LO | 0.0<br>0.000 | 257.8<br>0.0 | 600   |         |
|-------------|------|----------|---------|----------|--------------|--------------|-------|---------|
| ~~~~~       |      |          |         |          |              |              |       |         |
| ~~~~~       |      |          |         |          |              |              |       |         |
| Type        | Nm   | Station  | VL      | Circuit  | S"k          | Sbrk         | SbLim |         |
| Vrem/Vfault |      |          | St1 Flg | Busbar)  | I"k          | Phi          |       | PhiVrem |
| (nodes:     |      | St2 Flg  |         |          |              |              |       |         |
| =====       |      |          |         |          |              |              |       |         |
| Trafo       | F    | MOKC     | 10kV    | T403_cmp | 485.9        | 485.9        | 600   |         |
|             |      | MOKC     | 110kV   | SBV.T403 | 28.054       | -88.7        |       |         |
| -----       |      |          |         |          |              |              |       |         |
| FaultNd     | F    | MOKC     | 10kV    | T403_cmp | 485.9        |              | 600   | 0.0/    |
| 11.0        | eISn | NetGr    |         |          | 28.054       | -88.7        |       | 0.0     |
| 1           |      |          |         |          |              |              |       |         |
| ~~~~~       |      |          |         |          |              |              |       |         |
| ~~~~~       |      |          |         |          |              |              |       |         |
| Type        | Nm   | Station  | VL      | Circuit  | S"k          | Sbrk         | SbLim |         |
| Vrem/Vfault |      |          | St1 Flg | Busbar)  | I"k          | Phi          |       | PhiVrem |
| (nodes:     |      | St2 Flg  |         |          |              |              |       |         |
| =====       |      |          |         |          |              |              |       |         |
| OhlCb       | O    | MWVEDENI | 110kV   | 5570_OKC | 2.6          | 2759.2       | 3500  |         |
|             |      | MUBR     | 110kV   | SBB      | 0.014        | -85.1        |       |         |
| OhlCb       | O    | MWVEDENI | 110kV   | 5571_OKC | 2.6          | 2759.2       | 3500  |         |
|             |      | MUBR     | 110kV   | SBB      | 0.014        | -85.1        |       |         |
| OhlCb       | O    | MWVEDENI | 110kV   | _545_KY_ | 12.0         | 2749.7       | 3500  |         |
|             |      | MKY      | 110kV   | SBA1     | 0.063        | -86.7        |       |         |
| OhlCb       | O    | MWVEDENI | 110kV   | _546_KUN | 4.3          | 2757.5       | 3500  |         |
|             |      | MKUN     | 110kV   | SBA1     | 0.023        | -86.3        |       |         |
| Trafo       | F    | MOKC     | 110kV   | T402_cmp | 2740.2       | 2740.2       | 3500  |         |
|             |      | MOKC     | 110kV   | SBV.T402 | 14.382       | -86.0        |       |         |
| -----       |      |          |         |          |              |              |       |         |
| FaultNd     | O    | MOKC     | 110kV   | SBA1     | 2761.8       |              | 5000  |         |
| 0.0/121.0   | eISn | NetGr    |         |          | 14.496       | -86.0        |       | 0.0     |
| 1           |      |          |         |          |              |              |       |         |
| ~~~~~       |      |          |         |          |              |              |       |         |
| ~~~~~       |      |          |         |          |              |              |       |         |
| Type        | Nm   | Station  | VL      | Circuit  | S"k          | Sbrk         | SbLim |         |
| Vrem/Vfault |      |          | St1 Flg |          |              |              |       |         |

| (nodes: |   | 02 3f zkratý - zapojení s mŕstkem T401 + T403 |       |          | I"k     |  | Phi      |  | Phivrem |  |
|---------|---|-----------------------------------------------|-------|----------|---------|--|----------|--|---------|--|
| St2 Flg |   |                                               |       |          |         |  |          |  |         |  |
| =====   |   |                                               |       |          |         |  |          |  |         |  |
| oh1Cb   | O | MWVEDENI                                      | 110kv | 5575_NZD | 0.0     |  | 4114.9   |  | 5000    |  |
|         |   | MNZ_D                                         | 110kv | SBA1     | 0.000   |  | -180.0   |  |         |  |
| oh1Cb   | O | MWVEDENI                                      | 110kv | 5501_MAD | 23.7    |  | 4091.2   |  | 5000    |  |
|         |   | MMAD                                          | 110kv | SBA      | 0.124   |  | -85.2    |  |         |  |
| oh1Cb   | O | MWVEDENI                                      | 110kv | 5502_MAD | 23.7    |  | 4091.2   |  | 5000    |  |
|         |   | MMAD                                          | 110kv | SBB      | 0.124   |  | -85.2    |  |         |  |
| *Oh1Cb  | O | MWVEDENI                                      | 110kv | 5506_BHN | 0.0 V   |  | 4114.9 V |  | 3500    |  |
|         |   | MBHN                                          | 110kv | SBA1     | 0.000 V |  | -180.0   |  |         |  |
| *oh1Cb  | O | MWVEDENI                                      | 110kv | _559_CHR | 0.0 V   |  | 4114.9 V |  | 3500    |  |
|         |   | MCHR                                          | 110kv | SBA1     | 0.000 V |  | 0.0      |  |         |  |
| *Oh1Cb  | O | MWVEDENI                                      | 110kv | _573_OKC | 0.0 V   |  | 4114.9 V |  | 3500    |  |
|         |   | MRYC                                          | 110kv | SBA1     | 0.000 V |  | -180.0   |  |         |  |
| *Oh1Cb  | O | MWVEDENI                                      | 110kv | 5517_OKC | 0.0 V   |  | 4114.9 V |  | 3500    |  |
|         |   | MUHD                                          | 110kv | SBA1     | 0.000 V |  | -180.0   |  |         |  |
| *oh1Cb  | O | MWVEDENI                                      | 110kv | 5519_FA_ | 0.0 V   |  | 4114.9 V |  | 3500    |  |
|         |   | MFA                                           | 110kv | SBA1     | 0.000 V |  | -180.0   |  |         |  |
| BBC     | O | MOKC                                          | 110kv | KP1cmp   | 2039.8  |  | 2075.1   |  | 3500    |  |
|         |   | MOKC                                          | 110kv | SBC1     | 10.706  |  | -84.7    |  |         |  |
| Trafo   | F | MOKC                                          | 110kv | T403_cmp | 2027.7  |  | 2087.2   |  | 5000    |  |
|         |   | MOKC                                          | 110kv | SBV.T403 | 10.643  |  | -84.7    |  |         |  |

|           |   |      |       |      |        |  |       |  |      |     |
|-----------|---|------|-------|------|--------|--|-------|--|------|-----|
| FaultNd   | O | MOKC | 110kV | SBB1 | 4114.9 |  |       |  | 5000 |     |
| 0.0/121.0 |   | e1Sn | NetGr |      | 21.597 |  | -84.7 |  |      | 0.0 |
| 1         |   |      |       |      |        |  |       |  |      |     |

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| Type Nm | Station VL | Circuit | S"k | Sbrk | SbLim | | |
|-------------|------------|----------|-------|----------|---------|----------|------|
| vrem/vfault | St1 Flg | Busbar) | I"k | Phi | PhiVrem | | |
| (nodes: | St2 Flg | | | | | | |
| *Oh1Cb | O | MWVEDENI | 110kv | 5576_OKC | 0.0 V | 4114.9 V | 3500 |
| | | MZDO | 110kv | SBA1 | 0.000 V | 0.0 | |
| Oh1Cb | O | MWVEDENI | 110kv | 5503_MAD | 24.5 | 4090.4 | 5000 |
| | | MMAD | 110kv | SBB | 0.129 | -87.0 | |

| | | | | | | | |
|---|---|----------|-------|----------|---------|----------|------|
| 02 3f zkraty - zapojení s můstkem T401 + T403 | | | | | | | |
| ohlCb | O | MWVEDENI | 110kV | 5504_MLE | 22.9 | 4092.0 | 5000 |
| | | MMLE | 110kV | SBA1 | 0.120 | -87.2 | |
| *ohlCb | O | MWVEDENI | 110kV | 5505_OKC | 0.0 V | 4114.9 V | 3500 |
| | | MOK_D | 110kV | SBA1 | 0.000 V | 180.0 | |
| *ohlCb | O | MWVEDENI | 110kV | _550_HUN | 0.0 V | 4114.9 V | 3500 |
| | | MHUN | 110kV | SBA1 | 0.000 V | -180.0 | |
| *ohlCb | O | MWVEDENI | 110kV | 5516_OKC | 0.0 V | 4114.9 V | 3500 |
| | | MUHD | 110kV | SBA1 | 0.000 V | -180.0 | |
| *ohlCb | O | MWVEDENI | 110kV | 5518_FA_ | 0.0 V | 4114.9 V | 3500 |
| | | MFA | 110kV | SBA1 | 0.000 V | -180.0 | |
| BBC | O | MOKC | 110kV | KP1cmp | 2075.1 | 2075.1 | 3500 |
| | | MOKC | 110kV | SBB1 | 10.891 | -84.8 | |
| Trafo | F | MOKC | 110kV | T401_cmp | 1992.4 | 2122.5 | 3500 |
| | | MOKC | 110kV | SBV.T401 | 10.457 | -84.6 | |

| | | | | | | | |
|-----------|---|------|-------|------|--------|-------|------|
| ----- | | | | | | | |
| E FaultNd | O | MOKC | 110kV | SBC1 | 4114.9 | | 5000 |
| 0.0/121.0 | | eISn | NetGr | | | | |
| | | | | | 21.597 | -84.7 | 0.0 |
| | 1 | | | | | | |
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|-------------|----|---------|-------|----------|--------|--------|---------|
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
| vrem/vfault | | St1 | Flg | | | | |
| (nodes: | | St2 | Flg | Busbar) | I"k | Phi | PhiVrem |
| ===== | | | | | | | |
| Trafo | F | MOKC | 400KV | T401_cmp | 1094.7 | 2577.0 | 3500 |
| | | 7 | MOKC | SBA | 5.746 | -91.7 | |
| Trafo | F | MOKC | 10kV | T401_cmp | 0.0 | 1482.6 | 5000 |
| | | MOKC | 10kV | SBT401 | 0.000 | -180.0 | |
| Trafo | F | MOKC | 110kV | T401_cmp | 2577.0 | 2577.0 | 3500 |
| | | MOKC | 110kV | SBC1 | 13.526 | 87.3 | |

| | | | | | | | |
|-----------|---|------|-------|----------|--------|------|-------|
| ----- | | | | | | | |
| FaultNd | O | MOKC | 110kV | SBV.T401 | 1482.6 | | 99999 |
| 0.0/121.0 | | eISn | NetGr | | | | |
| | | | | | 7.781 | 86.6 | 0.0 |
| | 1 | | | | | | |
| ~~~~~ | | | | | | | |

| | | | | | | | |
|-------|----|---------|----|---------|-----|------|-------|
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
| ----- | | | | | | | |

02 3f zkratý - zapojení s mŕstkem T401 + T403

| Vrem/Vfault
(nodes: | St1 Flg | Busbar) | I"k | Phi | PhiVrem | | |
|------------------------|---------|---------|-------|----------|---------|--------|-------|
| St2 Flg | | | | | | | |
| Trafo | F | MOKC | 400kV | T402_cmp | 831.0 | 831.0 | 3500 |
| | 6 | MOKC | 400kV | SBB | 4.362 | -88.9 | |
| Trafo | F | MOKC | 10kV | T402_cmp | 0.0 | 853.1 | 5000 |
| | | MOKC | 10kV | SBT402 | 0.000 | -180.0 | |
| Trafo | F | MOKC | 110kV | T402_cmp | 22.1 | 831.0 | 5000 |
| | | MOKC | 110kV | SBA1 | 0.116 | -86.1 | |
| FaultNd | 0 | MOKC | 110kV | SBV.T402 | 853.1 | | 99999 |
| 0.0/121.0 | eISn | NetGr | | | 4.477 | -88.8 | 0.0 |
| 1 | | | | | | | |

| Type | Nm | Station | VL | Circuit | S''k | Sbrk | SbLim |
|-------------|------|---------|-------|----------|--------|--------|---------|
| vrem/vfault | | St1 | Flg | Busbar) | I''k | Phi | PhiVrem |
| (nodes: | | St2 | Flg | | | | |
| Trafo | F | MOKC | 400kv | T403_cmp | 1143.5 | 2804.3 | 3500 |
| | 5 | MOKC | 400kv | SBA | 6.002 | -91.9 | |
| Trafo | F | MOKC | 10kv | T403_cmp | 0.0 | 1661.2 | 5000 |
| | | MOKC | 10kv | T403_cmp | 0.000 | -180.0 | |
| Trafo | F | MOKC | 110kv | T403_cmp | 2804.3 | 2804.3 | 5000 |
| | | MOKC | 110kv | SBB1 | 14.719 | 86.9 | |
| FaultNd | 0 | MOKC | 110kv | SBV.T403 | 1661.2 | | 99999 |
| 0.0/121.0 | eISn | NetGr | | | 8.719 | 86.1 | 0.0 |
| 1 | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|----------|---------|---------|--------|--------|---------|
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 Flg | | | | | |
| ohlCb | F | MWVEDENI | 400kv | 417_OKC | 5745.8 | 6513.7 | 30000 |
| | | MSO | 400KV | SBV.KP2 | 8.293 | -82.9 | |
| BBC | F | MOKC | 400KV | KP1cmp | 6405.7 | 6405.7 | 25000 |

02 3f zkratý - zapojení s můstkem T401 + T403
MOKC 400KV SBB 9.246 -73.4

| | | | | | | | |
|-------|---|------|-------|----------|-------|---------|-------|
| Trafo | F | MOKC | 400KV | T401_cmp | 54.9 | 12165.6 | 25000 |
| | | MOKC | 110kv | SBV.T401 | 0.079 | -86.1 | |
| Trafo | F | MOKC | 400KV | T403_cmp | 55.9 | 12164.7 | 25000 |
| | | MOKC | 110kv | SBV.T403 | 0.081 | -86.2 | |

| | | | | | | | |
|-----------|---|------|-------|-----|---------|-------|-------|
| FaultNd | F | MOKC | 400KV | SBA | 12220.0 | | 25000 |
| 0.0/440.0 | | eISn | NetGr | | 17.638 | -77.9 | 0.0 |

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| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|----------|-----|------|---------|
| vrem/vfault | | | St1 Flg | (Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 Flg | | | | | |

| | | | | | | | |
|-------|---|------|-------|----------|--------|---------|-------|
| BBC | F | MOKC | 400KV | KP1cmp | 5856.4 | 6405.7 | 25000 |
| | | MOKC | 400KV | SBA | 8.453 | -82.9 | |
| Trafo | F | MOKC | 400KV | T402_cmp | 25.4 | 12194.8 | 25000 |
| | | MOKC | 110kv | SBV.T402 | 0.037 | -86.2 | |

| | | | | | | | |
|-----------|---|------|-------|-----|---------|-------|-------|
| E FaultNd | F | MOKC | 400KV | SBB | 12220.0 | | 25000 |
| 0.0/440.0 | | eISn | NetGr | | 17.638 | -77.9 | 0.0 |

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| | | | | | | | |
|-----|---|------|-------|----------|--------|--------|-------|
| Inj | F | MOKC | 400KV | INJ.V418 | 6380.9 | 6380.9 | 20000 |
| | | | | | 9.210 | -73.4 | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|---------|---------|----------|-----|------|---------|
| vrem/vfault | | | St1 Flg | (Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 Flg | | | | | |

| | | | | | | | |
|-------|---|----------|-------|----------|--------|--------|------|
| ohlcb | O | MWVEDENI | 110kv | 5505_OKC | 2224.3 | 2224.3 | 5000 |
| | | MOKC | 110kv | SBC1 | 11.675 | -81.4 | |
| ohlcb | O | MWVEDENI | 110kv | 5508_BAR | 1033.1 | 2224.3 | 3500 |
| | | MBAR | 110kv | SBA1 | 5.422 | -81.2 | |

| | | | | | | | |
|-----------|---|-------|-------|------|--------|-------|------|
| FaultNd | O | MOK_D | 110kv | SBA1 | 3257.4 | | 3500 |
| 0.0/121.0 | | eISn | NetGr | | 17.097 | -81.4 | 0.0 |

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| Load | F | MOK_D | 110kV | T101LOAD | 0.0
0.000 | 3257.4
0.0 | 3500 | |
|-------------|----|----------|---------|----------|--------------|---------------|-------|---------|
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 Flg | | | | | | |
| ===== | | | | | | | | |
| OhlCb | O | MWVEDENI | 110kV | _542_HO_ | 516.6 | 516.6 | 3500 | |
| | | MHO | 110kV | SBB1 | 2.712 | -74.5 | | |
| OhlCb | O | MWVEDENI | 110kV | _547_NAD | 309.4 | 516.6 | 3500 | |
| | | MNA_D | 110kV | SBA1 | 1.624 | -75.3 | | |
| Trafo | O | MPNV | 110kV | T101_cmp | 0.0 | 826.0 | 3500 | |
| | 13 | MPNV | 22kV | SBA1 | 0.000 | 0.0 | | |
| ----- | | | | | | | | |
| FaultNd | O | MPNV | 110kV | SBA1 | 826.0 | | 3500 | |
| 0.0/121.0 | | eISn | NetGr | | 4.336 | -74.8 | | 0.0 |
| 1 | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 Flg | | | | | | |
| ===== | | | | | | | | |
| Trafo | O | MPNV | 110kV | T101_cmp | 285.3 | 285.3 | 600 | |
| | 13 | MPNV | 110kV | SBA1 | 7.486 | -82.5 | | |
| ----- | | | | | | | | |
| FaultNd | O | MPNV | 22kV | SBA1 | 285.3 | | 600 | 0.0/ |
| 24.2 | | eISn | NetGr | | 7.486 | -82.5 | | 0.0 |
| 1 | | | | | | | | |
| ----- | | | | | | | | |
| Load | O | MPNV | 22kV | SBA1LOAD | 0.0
0.000 | 285.3
0.0 | 600 | |
| Load | O | MPNV | 22kV | SBA2LOAD | 0.0
0.000 | 285.3
0.0 | 600 | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | | St1 Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | | | | | | | |

02 3f zkraty - zapojení s můstkem T401 + T403
St2 Flg

| | | | | | | | |
|-------|----|----------|-------|----------|-------|--------|-------|
| ohlCb | O | MWVEDENI | 110kV | 5577_NZD | 392.0 | 419.4 | 3500 |
| | | MNZ_D | 110kV | SBA1 | 2.058 | -75.3 | |
| ohlCb | O | MWVEDENI | 110kV | 5578_PRT | 419.4 | 419.4 | 3500 |
| | | MZDO | 110kV | SBA1 | 2.201 | -75.2 | |
| ohlCb | O | MWVEDENI | 110kV | 5594_KNC | 0.0 | 811.4 | 3500 |
| | | MKNC | 110kV | SBA1 | 0.000 | -180.0 | |
| ohlCb | O | MWVEDENI | 110kV | _556_PRT | 0.0 | 811.4 | 3500 |
| | | MWVEDENI | 110kV | _556_PRT | 0.000 | -180.0 | |
| Trafo | O | MPRT | 110kV | T103_cmp | 0.0 | 811.4 | 35000 |
| | 12 | MPRT | 22kV | SBB1 | 0.000 | 0.0 | |
| Trafo | O | MPRT | 110kV | T101_cmp | 0.0 | 811.4 | 35000 |
| | 12 | MPRT | 22kV | SBA1 | 0.000 | -180.0 | |

| | | | | | | | |
|-----------|---|------|-------|-----|-------|-------|------|
| FaultNd | O | MPRT | 110kV | SBA | 811.4 | | 3500 |
| 0.0/121.0 | | eISn | NetGr | | 4.259 | -75.2 | 0.0 |
| | 1 | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
|-------------|----|---------|-------|----------|-------|-------|-------|---------|
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| Trafo | O | MPRT | 110kV | T101_cmp | 272.2 | 272.2 | 600 | |
| | 12 | MPRT | 110kV | SBA | 7.144 | -82.9 | | |
| FaultNd | O | MPRT | 22kV | SBA1 | 272.2 | | 600 | 0.0/ |
| 24.2 | | eISn | NetGr | | 7.144 | -82.9 | | 0.0 |
| | 1 | | | | | | | |
| Load | O | MPRT | 22kV | SBA1LOAD | 0.0 | 272.2 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| Load | O | MPRT | 22kV | SBA2LOAD | 0.0 | 272.2 | 600 | |
| | | | | | 0.000 | 0.0 | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
|-------------|----|---------|-----|---------|-----|------|-------|---------|
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | | |
|-------------|------|----------|-------|----------|-------|--------|-------|---------|
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| Trafo | O | MPRT | 110kV | T103_cmp | 267.4 | 267.4 | 600 | |
| | 12 | MPRT | 110kV | SBA | 7.018 | -83.9 | | |
| ----- | | | | | | | | |
| FaultNd | O | MPRT | 22kV | SBB1 | 267.4 | | 600 | 0.0/ |
| 24.2 | eISn | NetGr | | | 7.018 | -83.9 | | 0.0 |
| | 1 | | | | | | | |
| ----- | | | | | | | | |
| Load | O | MPRT | 22kV | SBB1LOAD | 0.0 | 267.4 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| Load | O | MPRT | 22kV | SBB2LOAD | 0.0 | 267.4 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| oh1Cb | O | MWVEDENI | 110kV | _573_OKC | 832.6 | 832.6 | 5000 | |
| | | MOKC | 110kV | SBB1 | 4.370 | -73.9 | | |
| Trafo | O | MRYC | 110kV | T101_cmp | 0.0 | 832.6 | 2500 | |
| | 13 | MRYC | 22kV | SB.A1 | 0.000 | -180.0 | | |
| ----- | | | | | | | | |
| FaultNd | O | MRYC | 110kV | SBA1 | 832.6 | | 3500 | |
| 0.0/121.0 | eISn | NetGr | | | 4.370 | -73.9 | | 0.0 |
| | 1 | | | | | | | |
| ~~~~~ | | | | | | | | |
| ~~~~~ | | | | | | | | |
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | Phivrem |
| (nodes: | | St2 | Flg | | | | | |
| ===== | | | | | | | | |
| Trafo | O | MRYC | 110kV | T101_cmp | 196.9 | 196.9 | 600 | |
| | 13 | MRYC | 110kV | SBA1 | 5.167 | -83.4 | | |
| ----- | | | | | | | | |
| FaultNd | O | MRYC | 22kV | SB.A1 | 196.9 | | 600 | 0.0/ |
| 24.2 | eISn | NetGr | | | 5.167 | -83.4 | | 0.0 |
| | 1 | | | | | | | |
| ----- | | | | | | | | |
| Load | O | MRYC | 22kV | SBA1LOAD | 0.0 | 196.9 | 600 | |
| | | | | | 0.000 | 0.0 | | |
| Load | O | MRYC | 22kV | SBA2LOAD | 0.0 | 196.9 | 600 | |

02 3f zkraty - zapojení s můstkem T401 + T403

0.000 0.0

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| Type<br>vrem/vfault<br>(nodes: | Nm | Station  | VL<br>St1 Flg | Circuit<br>Busbar) | S"k<br>I"k | Sbrk<br>Phi | SbLim | PhiVrem |
|--------------------------------|----|----------|---------------|--------------------|------------|-------------|-------|---------|
| St2 Flg                        |    |          |               |                    |            |             |       |         |
| OhlCb                          | O  | MWVEDENI | 110kV         | 5510_SLM           | 642.5      | 642.5       | 3500  |         |
|                                |    | MUBR     | 110kV         | SBB                | 3.372      | -67.0       |       |         |
| Trafo                          | O  | MSLM     | 110kV         | T101_cmp           | 0.0        | 642.5       | 3500  |         |
|                                | 11 | MSLM     | 22kV          | SBA1               | 0.000      | 0.0         |       |         |

|           |   |      |       |      |       |       |      |     |
|-----------|---|------|-------|------|-------|-------|------|-----|
| FaultNd   | O | MSLM | 110kV | SBA1 | 642.5 |       | 3500 |     |
| 0.0/121.0 |   | eISn | NetGr |      | 3.372 | -67.0 |      | 0.0 |
| 1         |   |      |       |      |       |       |      |     |

| Type<br>vrem/vfault<br>(nodes: | Nm | Station | VL<br>St1 Flg | Circuit<br>Busbar) | S"k<br>I"k | Sbrk<br>Phi | SbLim | PhiVrem |
|--------------------------------|----|---------|---------------|--------------------|------------|-------------|-------|---------|
| St2 Flg                        |    |         |               |                    |            |             |       |         |
| Trafo                          | O  | MSLM    | 110kV         | T101_cmp           | 243.3      | 243.3       | 600   |         |
|                                | 11 | MSLM    | 110kV         | SBA1               | 6.385      | -80.0       |       |         |

|         |   |      |       |      |       |       |     |      |
|---------|---|------|-------|------|-------|-------|-----|------|
| FaultNd | O | MSLM | 22kV  | SBA1 | 243.3 |       | 600 | 0.0/ |
| 24.2    |   | eISn | NetGr |      | 6.385 | -80.0 |     | 0.0  |
| 1       |   |      |       |      |       |       |     |      |

|      |   |      |      |          |              |              |     |  |
|------|---|------|------|----------|--------------|--------------|-----|--|
| Load | O | MSLM | 22kV | SBA1LOAD | 0.0<br>0.000 | 243.3<br>0.0 | 600 |  |
|------|---|------|------|----------|--------------|--------------|-----|--|

| Type<br>vrem/vfault<br>(nodes: | Nm | Station  | VL<br>St1 Flg | Circuit<br>Busbar) | S"k<br>I"k | Sbrk<br>Phi | SbLim | PhiVrem |
|--------------------------------|----|----------|---------------|--------------------|------------|-------------|-------|---------|
| St2 Flg                        |    |          |               |                    |            |             |       |         |
| OhlCb                          | O  | MWVEDENI | 110kV         | 5574_MAD           | 1185.5     | 1185.5      | 5000  |         |
|                                |    | MMAD     | 110kV         | SBB                | 6.222      | -72.9       |       |         |
| OhlCb                          | O  | MWVEDENI | 110kV         | _568_VST           | 320.2      | 1185.5      | 3500  |         |
|                                |    | MVST     | 110kV         | SBB                | 1.681      | -71.8       |       |         |

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|             |       |          |       |          |         |          |       |         |
|-------------|-------|----------|-------|----------|---------|----------|-------|---------|
| Trafo       | O     | MSLU     | 110kv | T101_cmp | 0.0     | 1505.7   | 3500  |         |
|             | 12    | MSLU     | 22kv  | SBA1     | 0.000   | -180.0   |       |         |
| -----       |       |          |       |          |         |          |       |         |
| FaultNd     | O     | MSLU     | 110kv | SBA1     | 1505.7  |          | 3500  |         |
| 0.0/121.0   |       | elSn     | NetGr |          | 7.903   | -72.7    |       | 0.0     |
| 1           | ~~~~~ |          |       |          |         |          |       |         |
| ~~~~~       |       |          |       |          |         |          |       |         |
| =====       |       |          |       |          |         |          |       |         |
| Type        | Nm    | Station  | VL    | Circuit  | S"k     | Sbrk     | SbLim |         |
| Vrem/Vfault |       | St1      | Flg   | Busbar)  | I"k     | Phi      |       | PhiVrem |
| (nodes:     |       | St2      | Flg   |          |         |          |       |         |
| =====       |       |          |       |          |         |          |       |         |
| Trafo       | O     | MSLU     | 110kv | T101_cmp | 327.2   | 327.2    | 600   |         |
|             | 12    | MSLU     | 110kv | SBA1     | 8.588   | -83.9    |       |         |
| -----       |       |          |       |          |         |          |       |         |
| FaultNd     | O     | MSLU     | 22kv  | SBA1     | 327.2   |          | 600   | 0.0/    |
| 24.2        |       | elSn     | NetGr |          | 8.588   | -83.9    |       | 0.0     |
| 1           | ----- |          |       |          |         |          |       |         |
| Load        | O     | MSLU     | 22kv  | SBA1LOAD | 0.0     | 327.2    | 600   |         |
|             |       |          |       |          | 0.000   | 0.0      |       |         |
| Load        | O     | MSLU     | 22kv  | SBA2LOAD | 0.0     | 327.2    | 600   |         |
|             |       |          |       |          | 0.000   | 0.0      |       |         |
| ~~~~~       |       |          |       |          |         |          |       |         |
| ~~~~~       |       |          |       |          |         |          |       |         |
| =====       |       |          |       |          |         |          |       |         |
| Type        | Nm    | Station  | VL    | Circuit  | S"k     | Sbrk     | SbLim |         |
| Vrem/Vfault |       | St1      | Flg   | Busbar)  | I"k     | Phi      |       | PhiVrem |
| (nodes:     |       | St2      | Flg   |          |         |          |       |         |
| =====       |       |          |       |          |         |          |       |         |
| ohlCb       | O     | MWVEDENI | 110kv | 5573_MAD | 3004.4  | 3004.4   | 5000  |         |
|             |       | MMAD     | 110kv | SBA      | 15.769  | -80.4    |       |         |
| *Trafo      | F     | MSVI     | 110kv | T114_cmp | 50.8 v  | 3004.4 v | 2500  |         |
|             | 15    | MSVI     | 6kv   | SBA      | 0.266 v | -87.9    |       |         |
| -----       |       |          |       |          |         |          |       |         |
| FaultNd     | O     | MSVI     | 110kv | SBV.T114 | 3054.7  |          | 3500  |         |
| 0.0/121.0   |       | elSn     | NetGr |          | 16.033  | -80.5    |       | 0.0     |
| 1           | ~~~~~ |          |       |          |         |          |       |         |
| ~~~~~       |       |          |       |          |         |          |       |         |
| =====       |       |          |       |          |         |          |       |         |
| Type        | Nm    | Station  | VL    | Circuit  | S"k     | Sbrk     | SbLim |         |

Stránka 25

## 02 3f zkratý - zapojení s můstkem T401 + T403

| Vrem/Vfault<br>(nodes: | St1 Flg | Busbar)        | I"k      | Phi     | PhiVrem  |      |
|------------------------|---------|----------------|----------|---------|----------|------|
| St2 Flg                |         |                |          |         |          |      |
| OhlCb                  | O       | MWVEDENI 110kv | 5572_MAD | 2987.0  | 2987.0   | 3500 |
|                        |         | MMAD 110kv     | SBB      | 15.678  | -80.3    |      |
| *Trafo                 | F       | MSVI 110kv     | T115_cmp | 72.3 v  | 2987.0 v | 2500 |
|                        | 15      | MSVI 6kv       | SBA      | 0.379 v | -88.6    |      |
| -----                  |         |                |          |         |          |      |
| FaultNd                | O       | MSVI 110kv     | SBV.T115 | 3058.6  |          | 3500 |
| 0.0/121.0              | eISn    | NetGr          |          | 16.053  | -80.5    | 0.0  |
| 1                      |         |                |          |         |          |      |
| ~~~~~                  |         |                |          |         |          |      |
| ~~~~~                  |         |                |          |         |          |      |

| Type        | Nm   | Station    | VL       | Circuit | S"k     | Sbrk | SbLim   |
|-------------|------|------------|----------|---------|---------|------|---------|
| Vrem/Vfault |      | St1 Flg    |          |         |         |      |         |
| (nodes:     |      |            |          | Busbar) | I"k     | Phi  | PhiVrem |
| St2 Flg     |      |            |          |         |         |      |         |
| Trafo       | F    | MSVI 110kV | T114_cmp | 237.4   | 486.7   | 600  |         |
|             | 15   | MSVI 110kV | SBV.T114 | 21.758  | -85.1   |      |         |
| Trafo       | F    | MSVI 110kV | T115_cmp | 374.7   | 374.7   | 600  |         |
|             | 15   | MSVI 110kV | SBV.T115 | 34.335  | -87.0   |      |         |
| *FaultNd    | F    | MSVI 6kV   | SBA      | 724.0 V |         | 600  | 0.0/    |
| 6.9         | eISn | NetGr      |          | 66.351  | -86.2   |      | 0.0     |
| 1           |      |            |          |         |         |      |         |
| *Load       | F    | MSVI 6kV   | SBALOAD  | 0.0 V   | 724.0 V | 600  |         |
|             |      |            |          | 0.000 V | 0.0     |      |         |
| *Gen        | F    | MSVI 6kV   | GEN31cmp | 56.0 V  | 668.0 V | 600  |         |
|             |      |            |          | 5.132 V | -86.0   |      |         |
| *Gen        | F    | MSVI 6kV   | GEN6cmp  | 56.0 V  | 668.0 V | 600  |         |
|             |      |            |          | 5.132 V | -86.0   |      |         |

| Type        | Nm | Station        | VL       | Circuit | S"k   | Sbrk | SbLim   |
|-------------|----|----------------|----------|---------|-------|------|---------|
| Vrem/Vfault |    | St1 Flg        |          |         |       |      |         |
| (nodes:     |    |                |          | Busbar) | I"k   | Phi  | PhiVrem |
| St2 Flg     |    |                |          |         |       |      |         |
| ohlCb       | O  | MWVEDENI 110kV | 5570_OKC | 611.6   | 786.2 | 5000 |         |
|             |    | MOKC 110kV     | SBA1     | 3.210   | -78.5 |      |         |
| ohlCb       | O  | MWVEDENI 110kV | 5571_OKC | 611.6   | 786.2 | 5000 |         |

02 3f zkratky - zapojení s můstkem T401 + T403  
MOKC 110kV SBA1 3.210 -78.5

|       |    |          |       |          |       |        |      |
|-------|----|----------|-------|----------|-------|--------|------|
| ohlcb | O  | MWVEDENI | 110kV | _543_UBR | 174.6 | 1223.2 | 3500 |
|       |    | MVKA     | 110kV | SBA3     | 0.917 | -77.2  |      |
| ohlCb | O  | MWVEDENI | 110kV | 5510_SLM | 0.0   | 1397.8 | 3500 |
|       |    | MSLM     | 110kV | SBA1     | 0.000 | 0.0    |      |
| Trafo | O  | MUBR     | 110kV | T101_cmp | 0.0   | 1397.8 | 3500 |
|       | 12 | MUBR     | 22kV  | SBA1     | 0.000 | -180.0 |      |
| Trafo | O  | MUBR     | 110kV | T102_cmp | 0.0   | 1397.8 | 3500 |
|       | 13 | MUBR     | 22kV  | SBB1     | 0.000 | -180.0 |      |

|           |   |      |       |     |        |       |      |
|-----------|---|------|-------|-----|--------|-------|------|
| FaultNd   | O | MUBR | 110kV | SBB | 1397.8 |       | 3500 |
| 0.0/121.0 |   | elSn | NetGr |     | 7.337  | -78.4 | 0.0  |
|           | 1 |      |       |     |        |       |      |

| Type        | Nm | Station | VL      | Circuit  | S"k | Sbrk | SbLim   |
|-------------|----|---------|---------|----------|-----|------|---------|
| Vrem/vfault |    |         | St1 Flg | (Busbar) | I"k | Phi  | PhiVrem |
| (nodes:     |    | St2 Flg |         |          |     |      |         |

|       |    |      |       |          |       |       |     |
|-------|----|------|-------|----------|-------|-------|-----|
| Trafo | O  | MUBR | 110kV | T101_cmp | 318.1 | 318.1 | 600 |
|       | 12 | MUBR | 110kV | SBB      | 8.347 | -85.1 |     |

|         |   |      |       |      |       |       |      |
|---------|---|------|-------|------|-------|-------|------|
| FaultNd | O | MUBR | 22kV  | SBA1 | 318.1 |       | 600  |
| 24.2    |   | elSn | NetGr |      | 8.347 | -85.1 | 0.0/ |
|         | 1 |      |       |      |       |       | 0.0  |

|      |   |      |      |          |       |       |     |
|------|---|------|------|----------|-------|-------|-----|
| Load | O | MUBR | 22kV | SBA1LOAD | 0.0   | 318.1 | 600 |
|      |   |      |      |          | 0.000 | 0.0   |     |
| Load | O | MUBR | 22kV | SBA2LOAD | 0.0   | 318.1 | 600 |
|      |   |      |      |          | 0.000 | 0.0   |     |

| Type        | Nm | Station | VL      | Circuit  | S"k | Sbrk | SbLim   |
|-------------|----|---------|---------|----------|-----|------|---------|
| Vrem/vfault |    |         | St1 Flg | (Busbar) | I"k | Phi  | PhiVrem |
| (nodes:     |    | St2 Flg |         |          |     |      |         |

|       |    |      |       |          |       |       |     |
|-------|----|------|-------|----------|-------|-------|-----|
| Trafo | O  | MUBR | 110kV | T102_cmp | 322.2 | 322.2 | 600 |
|       | 13 | MUBR | 110kV | SBB      | 8.456 | -86.0 |     |

|         |   |      |      |      |       |  |      |
|---------|---|------|------|------|-------|--|------|
| FaultNd | O | MUBR | 22kV | SBB1 | 322.2 |  | 600  |
|         |   |      |      |      |       |  | 0.0/ |

02 3f zkraty - zapojení s můstkem T401 + T403

24.2 eISn NetGr 8.456 -86.0 0.0

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-----

|      |   |      |      |          |       |       |     |
|------|---|------|------|----------|-------|-------|-----|
| Load | O | MUBR | 22kv | SBB1LOAD | 0.0   | 322.2 | 600 |
|      |   |      |      |          | 0.000 | 0.0   |     |
| Load | O | MUBR | 22kv | SBB2LOAD | 0.0   | 322.2 | 600 |
|      |   |      |      |          | 0.000 | 0.0   |     |

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=====

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|-------------|----|----------|-------|----------|-------|--------|---------|
| vrem/vfault | | St1 | Flg | Busbar) | I"k | Phi | Phivrem |
| (nodes: | | St2 | Flg | | | | |
| ohlCb | O | MWVEDENI | 110kv | 5516_OKC | 872.9 | 872.9 | 5000 |
| | | MOKC | 110kv | SBC1 | 4.582 | -73.1 | |
| ohlCb | O | MWVEDENI | 110kv | 5517_OKC | 872.9 | 872.9 | 5000 |
| | | MOKC | 110kv | SBB1 | 4.582 | -73.1 | |
| Trafo | O | MUHD | 110kv | T101_cmp | 0.0 | 1745.8 | 3500 |
| | 12 | MUHD | 22kv | SBA | 0.000 | -180.0 | |

| | | | | | | | |
|-----------|---|------|-------|------|--------|-------|------|
| FaultNd | O | MUHD | 110kv | SBA1 | 1745.8 | | 3500 |
| 0.0/121.0 | | eISn | NetGr | | 9.163 | -73.1 | 0.0 |

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| Type        | Nm | Station | VL    | Circuit  | S"k   | Sbrk  | SbLim   |
|-------------|----|---------|-------|----------|-------|-------|---------|
| vrem/vfault |    | St1     | Flg   | Busbar)  | I"k   | Phi   | Phivrem |
| (nodes:     |    | St2     | Flg   |          |       |       |         |
| Trafo       | O  | MUHD    | 110kv | T101_cmp | 335.5 | 335.5 | 600     |
|             | 12 | MUHD    | 110kv | SBA1     | 8.804 | -84.4 |         |

-----

-----

|         |   |      |       |     |       |       |      |
|---------|---|------|-------|-----|-------|-------|------|
| FaultNd | O | MUHD | 22kv  | SBA | 335.5 |       | 600  |
| 24.2    |   | eISn | NetGr |     | 8.804 | -84.4 | 0.0/ |
|         |   |      |       |     |       |       | 0.0  |

1

-----

|      |   |      |      |         |       |       |     |
|------|---|------|------|---------|-------|-------|-----|
| Load | O | MUHD | 22kv | SBALOAD | 0.0   | 335.5 | 600 |
|      |   |      |      |         | 0.000 | 0.0   |     |

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=====

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
|------|----|---------|----|---------|-----|------|-------|
|------|----|---------|----|---------|-----|------|-------|

02 3f zkratý - zapojení s mŕstkem T401 + T403

| Vrem/Vfault
(nodes: | | St1 Flg | | Busbar) | I"k | Phi | Phivrem |
|------------------------|---|------------|---------|----------|--------------|--------------|---------|
| St2 Flg | | | | | | | |
| ===== | | | | | | | |
| OhlCb | O | MWVEDENI | 110kv | _540_VKA | 285.4 | 669.6 | 3500 |
| | | MVLM | 110kv | SBA7 | 1.498 | -75.2 | |
| OhlCb | O | MWVEDENI | 110kv | _543_UBR | 669.6 | 669.6 | 3500 |
| | | MUBR | 110kv | SBB | 3.514 | -75.3 | |
| Trafo | O | MVKA | 110kv | T103_cmp | 0.0 | 954.9 | 3500 |
| | | 13
MVKA | 22kv | SBA | 0.000 | 0.0 | |
| ----- | | | | | | | |
| FaultNd | O | MVKA | 110kv | SBA3 | 954.9 | | 3500 |
| | | e1Sn | NetGr | | 5.012 | -75.3 | 0.0 |
| 1 | | | | | | | |
| ----- | | | | | | | |
| Load | F | MVKA | 110kv | T102LOAD | 0.0
0.000 | 954.9
0.0 | 3500 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| Type Nm | | Station VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | St1 Flg | Busbar) | I"k | Phi | Phivrem | |
| (nodes: | | St2 Flg | | | | | |
| ===== | | | | | | | |
| Trafo | O | MVKA | 110kv | T103_cmp | 200.5 | 200.5 | 600 |
| | | 13
MVKA | 110kv | SBA3 | 5.263 | -84.2 | |
| ----- | | | | | | | |
| FaultNd | O | MVKA | 22kv | SBA | 200.5 | | 600 |
| | | e1Sn | NetGr | | 5.263 | -84.2 | 0.0/ |
| 24.2 | | | | | | | |
| 1 | | | | | | | |
| ----- | | | | | | | |
| Load | O | MVKA | 22kv | SBALOAD | 0.0
0.000 | 200.5
0.0 | 600 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| Type Nm | | Station VL | Circuit | S"k | Sbrk | SbLim | |
| Vrem/Vfault | | St1 Flg | Busbar) | I"k | Phi | Phivrem | |
| (nodes: | | St2 Flg | | | | | |
| ===== | | | | | | | |
| OhlCb | O | MWVEDENI | 110kv | _540_VKA | 506.8 | 506.8 | 3500 |
| | | MVKA | 110kv | SBA3 | 2.660 | -74.6 | |
| OhlCb | O | MWVEDENI | 110kv | _544_HO_ | 357.8 | 506.8 | 3500 |

02 3f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | |
|-------------|-----|----------|-------|----------|--------|-------|---------|
| | MHO | | 110kV | SBB1 | 1.878 | -74.9 | |
| Trafo | O | MVLM | 110kV | T103_cmp | 0.0 | 864.6 | 3500 |
| | 13 | MVLM | 22kV | SBA1 | 0.000 | 0.0 | |
| ----- | | | | | | | |
| FaultNd | O | MVLM | 110kV | SBA7 | 864.6 | | 3500 |
| 0.0/121.0 | | e1Sn | NetGr | | 4.538 | -74.7 | 0.0 |
| | 1 | | | | | | |
| ----- | | | | | | | |
| Load | F | MVLM | 110kV | T102LOAD | 0.0 | 864.6 | 3500 |
| | | | | | 0.000 | 0.0 | |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 | Flg | | | | |
| ===== | | | | | | | |
| Trafo | O | MVLM | 110kV | T103_cmp | 196.6 | 196.6 | 600 |
| | 13 | MVLM | 110kV | SBA7 | 5.161 | -83.8 | |
| ----- | | | | | | | |
| FaultNd | O | MVLM | 22kV | SBA1 | 196.6 | | 600 |
| 24.2 | | e1Sn | NetGr | | 5.161 | -83.8 | 0.0/ |
| | 1 | | | | | | 0.0 |
| ----- | | | | | | | |
| Load | O | MVLM | 22kV | SBA1LOAD | 0.0 | 196.6 | 600 |
| | | | | | 0.000 | 0.0 | |
| Load | O | MVLM | 22kV | SBA2LOAD | 0.0 | 196.6 | 600 |
| | | | | | 0.000 | 0.0 | |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim |
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | PhiVrem |
| (nodes: | | St2 | Flg | | | | |
| ===== | | | | | | | |
| OhlCb | O | MWVEDENI | 110kV | _567_MAD | 637.3 | 637.3 | 5000 |
| | | MMAD | 110kV | SBA | 3.345 | -70.2 | |
| OhlCb | O | MWVEDENI | 110kV | _568_VST | 549.4 | 637.3 | 3500 |
| | | MSLU | 110kV | SBA1 | 2.884 | -71.4 | |
| ----- | | | | | | | |
| FaultNd | F | MVST | 110kV | SBB | 1186.7 | | 3500 |
| 0.0/121.0 | | e1Sn | NetGr | | 6.229 | -70.8 | 0.0 |
| | 1 | | | | | | |
| ~~~~~ | | | | | | | |

02 3f zkraty - zapojení s můstkem T401 + T403

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
|-------------|------|----------|-------|----------|-------|-------|-------|---------|
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| ohlCb | 0 | MWVEDENI | 110kv | _556_PRT | 501.8 | 501.8 | 3500 | |
| | | MPRT | 110kv | SBA | 2.634 | -71.2 | | |
| FaultNd | 0 | MWVEDENI | 110kv | _556_PRT | 501.8 | | 3500 | |
| 0.0/121.0 | eISn | NetGr | | | 2.634 | -71.2 | | 0.0 |
| 1 | | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
|-------------|------|----------|-------|----------|--------|--------|-------|---------|
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| ohlCb | 0 | MWVEDENI | 110kv | 5576_OKC | 1005.8 | 1005.8 | 5000 | |
| | | MOKC | 110kv | SBC1 | 5.279 | -76.4 | | |
| ohlCb | 0 | MWVEDENI | 110kv | 5578_PRT | 216.0 | 1005.8 | 3500 | |
| | | MPRT | 110kv | SBA | 1.134 | -76.4 | | |
| Trafo | 0 | MZDO | 110kv | T101_cmp | 0.0 | 1221.8 | 3500 | |
| | 12 | MZDO | 22kv | SBA1 | 0.000 | -180.0 | | |
| FaultNd | 0 | MZDO | 110kv | SBA1 | 1221.8 | | 3500 | |
| 0.0/121.0 | eISn | NetGr | | | 6.413 | -76.4 | | 0.0 |
| 1 | | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk | SbLim | |
|-------------|------|---------|-------|----------|-------|-------|-------|---------|
| Vrem/Vfault | | St1 | Flg | Busbar) | I"k | Phi | | PhiVrem |
| (nodes: | | St2 | Flg | | | | | |
| Trafo | 0 | MZDO | 110kv | T101_cmp | 215.6 | 215.6 | 600 | |
| | 12 | MZDO | 110kv | SBA1 | 5.659 | -85.9 | | |
| FaultNd | 0 | MZDO | 22kv | SBA1 | 215.6 | | 600 | 0.0/ |
| 24.2 | eISn | NetGr | | | 5.659 | -85.9 | | 0.0 |

02 3f zkratý - zapojení s můstkem T401 + T403

1

| | | | | | | | |
|------|---|------|------|----------|-------|-------|-----|
| Load | 0 | MZDO | 22kv | SBA1LOAD | 0.0 | 215.6 | 600 |
| | | | | | 0.000 | 0.0 | |
| Load | 0 | MZDO | 22kv | SBA2LOAD | 0.0 | 215.6 | 600 |
| | | | | | 0.000 | 0.0 | |

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VYPOČTENÉ HODNOTY

**ZKRATOVÉ POMĚRY PŘI JEDNOFÁZOVÉM
ZKRATU PŘI ZAPOJENÍ S MŮSTKEM**

03 1f zkraty - zapojení s můstkem T401 + T403

```
=====
Short-Circuit 1-pole Tue 03.05.11 10:48:58 Start: single Name:05020906
Copenr:35
=====
```

PROGRAM CHARACTERISTICS

```
-----
388 nodes                222 lines/cables
274 loads                15 busbar couplers
14 generators            205 transformers
38 injections/equiv.injections 0 equivalent branches
                             6 shunts

4 electrical sub-networks
36 limit violations
```

PARAMETER

```
-----
Computation Mode : all busbars, with contributions
Fault-Type      : 1-phase, L1 - Ground
Motor Consideration: yes
Computation Method : Equivalent Voltage Source (IEC)
Voltage Factor C : 1.1
```

FLAGS

```
-----
column1/2
* = diagnosis indication (discrepancies/limit violations)
```

Calculated Value

X undefined / no zero sequence data

i invalid

V limit violation

Indicators for Network Membership

```
-----
O own
S subjacent own
B boundary
F foreign
R result NR
r to reduce
```

Computation formulas for short-circuit calculation 1-pole

```
-----
Pre-fault Phase Voltage (Vfault):
- IEC-909 : 1.1*Vnominal/sqrt(3),
- Superposition : Vactual/sqrt(3)
Ik"1 (kA) phase 1 : Initial short-circuit current : Ik"1 =
3*vfault/(2*Z1kk+Z0kk)
Sk"1 (MVA) : Initial short-circuit power : Sk"1 =
sqrt(3)*Vnominal*Ik"1
Sbrk1 (MVA) : Max.short-circuit break.power for CB
              Sbrk1 = Max(Sk"1branch,Sk"1bus
              -Sk"1branch)
SbLim (MVA) : Circuit Breaker breaking power limit
IOLim (kA) : Zero system current limit
PhiI0 : Phase angle
Ir(Vr),Is(Vs), : Initial short-circuit current and
It(Vt) : bus voltage magnitude of phase R,S,T
```

```
=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
Stránka 1
```

03 1f zkraty - zapojení s můstkem T401 + T403

| (PhiI0)
(nodes:
(V0/Vfault) | SbLim
IOLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) | |
|-----------------------------------|----------------|----------------|----------|---------------|------------------|----------------|-------|
| ohlCb 0
3500 | MWVEDENI | 110kV | 5507_BAR | 1300.5 o | 1515.0 o | 7.20 o | |
| 10 | MBHN | 110kV | SBA1 | 6.83 | 0.19 | 0.19 | |
| ohlCb 0
3500 | MWVEDENI | 110kV | 5508_BAR | 1515.0 o | 1515.0 o | 7.57 o | |
| 10 | MOK_D | 110kV | SBA1 | 7.95 | 0.19 | 0.19 | |
| FaultNd 0
-80.9 | MBAR
elSn | 110kV
NetGr | SBA1 | 2815.5 o | | 14.78 o | |
| 69.9 | 1 | | | 0.0 | 73.9 | 74.1 | 28.4/ |
| Load F
3500 | MBAR | 110kV | T101LOAD | 0.0 o | 2815.5 o | 0.00 o | |
| Load F
3500 | MBAR | 110kV | T102LOAD | 0.00
0.0 o | 0.00
2815.5 o | 0.00
0.00 o | |
| | | | | 0.00 | 0.00 | 0.00 | |

| Type
(PhiI0)
(nodes:
(V0/Vfault) | Nm
SbLim
IOLim | Station | VL | Circuit

Busbar) | S''k

Ir(Vr) | Sbrk1

Is(Vs) | 3*I0

It(Vt) |
|---|----------------------|--------------|----------------|------------------------|--------------------|---------------------|--------------------|
| ohlCb
5000 | 0 | MWVEDENI | 110kv | 5506_BHN | 2154.3 0 | 2154.3 0 | 9.92 0 |
| | 10 | MOKC | 110kv | SBB1 | 11.31 | 0.70 | 0.70 |
| ohlCb
3500 | 0 | MWVEDENI | 110kv | 5507_BAR | 755.9 0 | 2331.6 0 | 3.50 0 |
| | 10 | MBAR | 110kv | SBA1 | 3.97 | 0.24 | 0.24 |
| Trafo
3500 | 0 | MBHN | 110kv | T101_cmp | 89.0 0 | 2999.1 0 | 1.40 0 |
| | 0 | MBHN | 22kv | SBA | 0.47 | 0.47 | 0.47 |
| Trafo
3500 | 0 | MBHN | 110kv | T102_cmp | 89.7 0 | 2998.6 0 | 1.41 0 |
| | 0 | MBHN | 22kv | SBB | 0.47 | 0.47 | 0.47 |
| FaultNd
-81.7 | 0 | MBHN
elSn | 110kv
NetGr | SBA1 | 3087.5 0 | | 16.21 0 |
| 69.9 | 1 | | | | 0.0 | 72.7 | 72.5 26.8/ |

| Type
(PhiI0)
(nodes:
(V0/Vfault) | Nm
SbLim | Station
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) | |
|---|-------------|------------------|----|--------------------|---------------|-----------------|----------------|--|
|---|-------------|------------------|----|--------------------|---------------|-----------------|----------------|--|

03 1f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | |
|-------------|------|----------|-------|----------|---------|---------|------------|
| ===== | | | | | | | |
| ===== | | | | | | | |
| Trafo | 0 | MBHN | 110kV | T101_cmp | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | | | |
| | 0 | MBHN | 110kV | SBA1 | 0.00 | 0.00 | 0.00 |
| ----- | | | | | | | |
| FaultNd | 0 | MBHN | 22kV | SBA | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | | | |
| | | | | | 0.0 | 24.2 | 24.2 14.0/ |
| 14.0 | 1 | | | | | | |
| ----- | | | | | | | |
| Load | 0 | MBHN | 22kV | SBALOAD | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | | | |
| | | | | | 0.00 | 0.00 | 0.00 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
| (PhiI0) | | SbLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes: | | | | | | | |
| (V0/Vfault) | | IOLim | | | | | |
| ===== | | | | | | | |
| Trafo | 0 | MBHN | 110kV | T102_cmp | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | | | |
| | 0 | MBHN | 110kV | SBA1 | 0.00 | 0.00 | 0.00 |
| ----- | | | | | | | |
| FaultNd | 0 | MBHN | 22kV | SBB | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | | | |
| | | | | | 0.0 | 24.2 | 24.2 14.0/ |
| 14.0 | 1 | | | | | | |
| ----- | | | | | | | |
| Load | 0 | MBHN | 22kV | SBBLOAD | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | | | |
| | | | | | 0.00 | 0.00 | 0.00 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |
| ===== | | | | | | | |
| ===== | | | | | | | |
| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
| (PhiI0) | | SbLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes: | | | | | | | |
| (V0/Vfault) | | IOLim | | | | | |
| ===== | | | | | | | |
| oh1Cb | 0 | MWVEDENI | 110kV | _559_CHR | 626.4 o | 626.4 o | 3.29 o |
| | 5000 | | | | | | |
| | 10 | MOKC | 110kV | SBB1 | 3.29 | 0.00 | 0.00 |
| ----- | | | | | | | |
| FaultNd | F | MCHR | 110kV | SBA1 | 626.4 o | | 3.29 o |
| -74.3 | | eISn | NetGr | | | | |
| | | | | | 0.0 | 85.4 | 83.2 39.2/ |
| 69.9 | 1 | | | | | | |
| ----- | | | | | | | |
| Load | F | MCHR | 110kV | T102LOAD | 0.0 o | 626.4 o | 0.00 o |
| | 3500 | | | | | | |
| | | | | | 0.00 | 0.00 | 0.00 |

03 1f zkraty - zapojení s můstkem T401 + T403

| Type
(PhiI0)
(nodes:
(V0/vfault) | Nm
SbLim
IOLim | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|---------------------------|-------|--------------------|---------------|-----------------|----------------|
| ohlCb | 0 | MWVEDENI | 110kV | 5518_FA_ | 1171.5 o | 1171.5 o | 6.15 o |
| | 5000 | MOKC | 110kV | SBC1 | 6.15 | 0.00 | 0.00 |
| ohlCb | 10 | MWVEDENI | 110kV | 5519_FA_ | 1171.5 o | 1171.5 o | 6.15 o |
| | 5000 | MOKC | 110kV | SBB1 | 6.15 | 0.00 | 0.00 |
| | 10 | | | | | | |
| FaultNd | 0 | MFA | 110kV | SBA1 | 2343.0 o | | 12.30 o |
| -80.6 | | eISn | NetGr | | 0.0 | 75.9 | 76.5 30.9/ |
| 69.9 | 1 | | | | | | |
| Load | F | MFA | 110kV | T102LOAD | 0.0 o | 2343.0 o | 0.00 o |
| | 3500 | | | | 0.00 | 0.00 | 0.00 |

| Type
(PhiI0)
(nodes:
(V0/vfault) | Nm
SbLim
IOLim | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|---------------------------|-------|--------------------|---------------|-----------------|----------------|
| Trafo | 0 | MHO | 110kV | T8_cmp | 10.3 o | 10.3 o | 0.00 o |
| | 600 | MHO | 110kV | SBA1 | 0.59 | 0.59 | 0.59 |
| | 0 | | | | | | |
| FaultNd | 0 | MHO | 10kV | SBA3 | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | 0.0 | 11.0 | 11.0 6.4/ |
| 6.4 | 1 | | | | | | |
| Gen | F | MHO | 10kV | GEN3cmp | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | 0.00 | 0.00 | 0.00 |

| Type
(PhiI0)
(nodes:
(V0/vfault) | Nm
SbLim
IOLim | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|---------------------------|-------|--------------------|---------------|-----------------|----------------|
| Trafo | 0 | MHO | 110kV | T10_cmp | 10.3 o | 10.3 o | 0.00 o |
| | 600 | | | | | | |

| | | | | | | | |
|---|-----|-------|-------|----------|-------|-------|-----------|
| 03 1f zkraty - zapojení s můstkem T401 + T403 | | | | | | | |
| | MHO | 110kV | SBA1 | 0.59 | 0.59 | 0.59 | |
| 0 | | | | | | | |
| ----- | | | | | | | |
| FaultNd | 0 | MHO | 10kV | SBA4 | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | 0.0 | 11.0 | 11.0 6.4/ |
| 6.4 | 1 | | | | | | |
| ----- | | | | | | | |
| Gen | F | MHO | 10kV | GEN.4cmp | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | 0.00 | 0.00 | 0.00 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
|-------------|------|----------|-------|----------|---------|----------|--------|
| (PhiI0) | | SbLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes: | | | | | | | |
| (V0/vfault) | | IOLim | | | | | |
| ===== | | | | | | | |
| ohlCb | 0 | MWVEDENI | 110kV | _533_HO_ | 376.2 o | 1281.8 o | 2.33 o |
| | 3500 | | | | | | |
| | 10 | MTD | 110kV | SB.A | 1.97 | 0.17 | 0.20 |
| ohlCb | 0 | MWVEDENI | 110kV | _534_HO_ | 159.5 o | 1497.6 o | 0.60 o |
| | 3500 | | | | | | |
| | 10 | MWVEDSBV | 110kV | _534_A | 0.84 | 0.12 | 0.12 |
| ohlCb | 0 | MWVEDENI | 110kV | _535_HO_ | 229.0 o | 1429.0 o | 0.68 o |
| | 5000 | | | | | | |
| | 10 | MSO | 110kV | SBA1 | 1.20 | 0.26 | 0.26 |
| ohlCb | 0 | MWVEDENI | 110kV | _536_HO_ | 234.4 o | 1422.9 o | 0.70 o |
| | 5000 | | | | | | |
| | 10 | MSO | 110kV | SBA1 | 1.23 | 0.27 | 0.27 |
| Trafo | 0 | MHO | 110kV | T10_cmp | 298.4 o | 1360.5 o | 1.69 o |
| | 3500 | | | | | | |
| | 0 | MHO | 10kV | SBA4 | 1.57 | 0.08 | 0.09 |
| Trafo | 0 | MHO | 110kV | T13_cmp | 67.3 o | 1589.8 o | 1.06 o |
| | 2500 | | | | | | |
| | 0 | MHO | 22kV | SBA | 0.35 | 0.35 | 0.35 |
| Trafo | 0 | MHO | 110kV | T8_cmp | 298.4 o | 1360.5 o | 1.69 o |
| | 3500 | | | | | | |
| | 0 | MHO | 10kV | SBA3 | 1.57 | 0.08 | 0.09 |

| | | | | | | | |
|---------|------|------|-------|---------|----------|----------|------------|
| FaultNd | 0 | MHO | 110kV | SBA1 | 1656.8 o | | 8.70 o |
| -81.7 | | eISn | NetGr | | 0.0 | 67.4 | 66.3 19.0/ |
| 69.9 | 1 | | | | | | |
| ----- | | | | | | | |
| Load | 0 | MHO | 110kV | T12LOAD | 0.0 o | 1656.8 o | 0.00 o |
| | 3500 | | | | 0.00 | 0.00 | 0.00 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
|------|----|---------|----|---------|-----|-------|------|
|------|----|---------|----|---------|-----|-------|------|

03 1f zkraty - zapojení s můstkem T401 + T403

| (PhiI0)
(nodes:
(V0/Vfault) | SbLim
IOLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) | |
|--|---------------------------|----------------|--------------------|---------------|-----------------|----------------|-------|
| ohlcb 0
3500 | MWVEDENI | 110kV | _541_HO_ | 303.4 o | 564.8 o | 1.60 o | |
| 10 | MKY | 110kV | SBA1 | 1.59 | 0.02 | 0.01 | |
| ohlcb 0
3500 | MWVEDENI | 110kV | _542_HO_ | 285.4 o | 583.0 o | 1.81 o | |
| 10 | MPNV | 110kV | SBA1 | 1.50 | 0.16 | 0.16 | |
| ohlcb 0
3500 | MWVEDENI | 110kV | _544_HO_ | 279.5 o | 588.8 o | 1.15 o | |
| 10 | MVLM | 110kV | SBA7 | 1.47 | 0.16 | 0.16 | |
| FaultNd 0
-77.6 | MHO
elSn | 110kV
NetGr | SBB1 | 868.3 o | | 4.56 o | |
| 69.9 | 1 | | | 0.0 | 73.6 | 68.7 | 25.0/ |
| ~~~~~ | | | | | | | |
| Type Nm
(PhiI0)
(nodes:
(V0/Vfault) | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) | |
| Trafo 0
600 | MHO | 110kV | T13_cmp | 0.0 o | 0.0 o | 0.00 o | |
| 0 | MHO | 110kV | SBA1 | 0.00 | 0.00 | 0.00 | |
| FaultNd 0
-90.0 | MHO
elSn | 22kV
NetGr | SBA | 0.0 o | | 0.00 o | |
| 14.0 | 1 | | | 0.0 | 24.2 | 24.2 | 14.0/ |
| Load 0
600 | MHO | 22kV | SBALOAD | 0.0 o | 0.0 o | 0.00 o | |
| | | | | 0.00 | 0.00 | 0.00 | |
| ~~~~~ | | | | | | | |
| Type Nm
(PhiI0)
(nodes:
(V0/Vfault) | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) | |
| ohlcb 0
5000 | MWVEDENI | 110kV | _550_HUN | 1038.2 o | 1038.2 o | 4.40 o | |
| 10 | MOKC | 110kV | SBC1 | 5.45 | 0.53 | 0.53 | |
| Trafo 0
3500 | MHUN | 110kV | T102_cmp | 101.9 o | 1038.2 o | 1.60 o | |
| 0 | MHUN | 22kV | SBA | 0.53 | 0.53 | 0.53 | |

03 1f zkraty - zapojení s můstkem T401 + T403

```

-----
FaultNd 0 MHUN 110kV SBA1 1138.6 o 5.98 o
-75.4 eISn NetGr
0.0 78.7 73.2 30.6/
69.9 1
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====
Trafo 0 MHUN 110kV T102_cmp 0.0 o 0.0 o 0.00 o
600 MHUN 110kV SBA1 0.00 0.00 0.00
0
-----

```

```

-----
FaultNd 0 MHUN 22kV SBA 0.0 o 0.00 o
-90.0 eISn NetGr
0.0 24.2 24.2 14.0/
14.0 1
-----

```

```

-----
Load 0 MHUN 22kV SBALOAD 0.0 o 0.0 o 0.00 o
600
Load 0 MHUN 22kV SBBLOAD 0.00 0.00 0.00
600 0.0 o 0.0 o 0.00 o
0.00 0.00 0.00
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====
OhlCb 0 MWVEDENI 110kV 5594_KNC 404.4 o 404.4 o 1.57 o
3500 MPRT 110kV SBA 2.12 0.28 0.28
Trafo 10 MKNC 110kV T102_cmp 53.0 o 404.4 o 0.83 o
3500 MKNC 22kV SBA1 0.28 0.28 0.28
0
-----

```

```

-----
FaultNd 0 MKNC 110kV SBA1 457.0 o 2.40 o
-76.2 eISn NetGr
0.0 74.9 68.0 25.5/
69.9 1
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/Vfault) IOLim
=====

```

03 1f zkratý - zapojení s můstkem T401 + T403

| | | | | | | | |
|---------|---|------|-------|----------|-------|-------|------------|
| Trafo | 0 | MKNC | 110kV | T102_cmp | 0.0 o | 0.0 o | 0.00 o |
| 600 | | MKNC | 110kV | SBA1 | 0.00 | 0.00 | 0.00 |
| 0 | | | | | | | |
| ----- | | | | | | | |
| FaultNd | 0 | MKNC | 22kV | SBA1 | 0.0 o | | 0.00 o |
| -90.0 | | elSn | NetGr | | 0.0 | 24.2 | 24.2 14.0/ |
| 14.0 | 1 | | | | | | |
| ----- | | | | | | | |
| Load | 0 | MKNC | 22kV | SBA1LOAD | 0.0 o | 0.0 o | 0.00 o |
| 600 | | | | | 0.00 | 0.00 | 0.00 |
| Load | 0 | MKNC | 22kV | SBA2LOAD | 0.0 o | 0.0 o | 0.00 o |
| 600 | | | | | 0.00 | 0.00 | 0.00 |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
|-------------|----|----------|-------|----------|---------|---------|------------|
| (PhiI0) | | SbLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes: | | | | | | | |
| (V0/Vfault) | | IOLim | | | | | |
| ===== | | | | | | | |
| OhlCb | 0 | MWVEDENI | 110kV | _546_KUN | 524.2 o | 524.2 o | 1.72 o |
| 5000 | | MOKC | 110kV | SBA1 | 2.75 | 0.52 | 0.52 |
| 10 | | | | | | | |
| OhlCb | 0 | MWVEDENI | 110kV | 5540_KUN | 223.4 o | 621.9 o | 1.18 o |
| 3500 | | MNA_D | 110kV | SBA1 | 1.17 | 0.02 | 0.01 |
| 10 | | | | | | | |
| Trafo | F | MKUN | 110kV | T101_cmp | 98.3 o | 747.5 o | 1.55 o |
| 3500 | | MKUN | 22kV | SBB1 | 0.52 | 0.52 | 0.52 |
| 0 | | | | | | | |
| ----- | | | | | | | |
| FaultNd | 0 | MKUN | 110kV | SBA1 | 845.0 o | | 4.44 o |
| -78.9 | | elSn | NetGr | | 0.0 | 75.9 | 71.3 28.0/ |
| 69.9 | 1 | | | | | | |
| ~~~~~ | | | | | | | |
| ~~~~~ | | | | | | | |

| Type | Nm | Station | VL | Circuit | S"k | Sbrk1 | 3*I0 |
|-------------|----|---------|-------|----------|--------|--------|------------|
| (PhiI0) | | SbLim | | Busbar) | Ir(Vr) | Is(Vs) | It(Vt) |
| (nodes: | | | | | | | |
| (V0/Vfault) | | IOLim | | | | | |
| ===== | | | | | | | |
| Trafo | F | MKUN | 110kV | T101_cmp | 0.0 o | 0.0 o | 0.00 o |
| 600 | | MKUN | 110kV | SBA1 | 0.00 | 0.00 | 0.00 |
| 0 | | | | | | | |
| ----- | | | | | | | |
| FaultNd | 0 | MKUN | 22kV | SBB1 | 0.0 o | | 0.00 o |
| -90.0 | | elSn | NetGr | | 0.0 | 24.2 | 24.2 14.0/ |
| 14.0 | 1 | | | | | | |

03 1f zkraty - zapojení s můstkem T401 + T403

| | | | | | | | |
|------|-----|------|------|----------|-------|-------|--------|
| Load | 0 | MKUN | 22kV | SBB1LOAD | 0.0 o | 0.0 o | 0.00 o |
| | 600 | | | | | | |
| Load | 0 | MKUN | 22kV | SBB2LOAD | 0.00 | 0.00 | 0.00 |
| | 600 | | | | 0.0 o | 0.0 o | 0.00 o |
| | | | | | 0.00 | 0.00 | 0.00 |

~~~~~  
~~~~~

| Type
(PhiI0)
(nodes:
(V0/vfault) | Nm
SbLim
IOLim | Station | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|----------|-------|--------------------|---------------|-----------------|----------------|
| ohlcb | 0 | MWVEDENI | 110kV | _541_HO_ | 331.6 o | 545.4 o | 1.26 o |
| | 3500 | | | | | | |
| | 10 | MHO | 110kV | SBB1 | 1.74 | 0.25 | 0.25 |
| ohlcb | 0 | MWVEDENI | 110kV | _545_KY_ | 378.2 o | 498.5 o | 0.94 o |
| | 5000 | | | | | | |
| | 10 | MOKC | 110kV | SBA1 | 1.99 | 0.52 | 0.52 |
| Trafo | 0 | MKY | 110kV | T101_cmp | 93.1 o | 784.1 o | 1.24 o |
| | 3500 | | | | | | |
| | 0 | MKY | 22kV | SBA1 | 0.49 | 0.38 | 0.38 |
| Trafo | 0 | MKY | 110kV | T102_cmp | 74.8 o | 802.2 o | 1.18 o |
| | 3500 | | | | | | |
| | 0 | MKY | 22kV | SBB1 | 0.39 | 0.39 | 0.39 |

| | | | | | | | |
|---------|---|------|-------|------|---------|------|------------|
| FaultNd | 0 | MKY | 110kV | SBA1 | 876.7 o | | 4.60 o |
| -78.1 | | eISn | NetGr | | 0.0 | 72.3 | 65.7 22.2/ |
| 69.9 | 1 | | | | | | |

~~~~~  
~~~~~

| Type
(PhiI0)
(nodes:
(V0/vfault) | Nm
SbLim
IOLim | Station | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|---------|------|--------------------|---------------|-----------------|----------------|
| ohlcb | 0 | MKY | 22kV | V352 | 1.3 o | 1.3 o | 0.00 o |
| | 600 | | | | | | |
| | 0 | MKY | 22kV | SBA1 | 0.03 | 0.03 | 0.03 |
| ohlcb | 0 | MKY | 22kV | V353 | 1.3 o | 1.3 o | 0.00 o |
| | 600 | | | | | | |
| | 0 | MKY | 22kV | SBA1 | 0.03 | 0.03 | 0.03 |
| Trafo | 0 | MKY | 22kV | BAT01cmp | 2.6 o | 2.6 o | 0.00 o |
| | 800 | | | | | | |
| | 0 | MKY | 6kV | SBV.T01 | 0.07 | 0.07 | 0.07 |

| | | | | | | | |
|---------|---|------|-------|-----|-------|------|------------|
| FaultNd | 0 | MKY | 22kV | SBA | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | 0.0 | 24.2 | 24.2 14.0/ |

03 1f zkraty - zapojení s můstkem T401 + T403

14.0

1

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Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlcb	0 600	MKY	22kV	V352	1.3 o	1.3 o	0.00 o
		MKY	22kV	SBA	0.03	0.03	0.03
ohlcb	0 600	MKY	22kV	V353	1.3 o	1.3 o	0.00 o
		MKY	22kV	SBA	0.03	0.03	0.03
Trafo	0 600	MKY	110kV	T101_cmp	2.6 o	2.6 o	0.00 o
		MKY	110kV	SBA1	0.07	0.07	0.07

FaultNd	0	MKY	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/

14.0

1

Load	0 600	MKY	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00
Load	0 600	MKY	22kV	SBA2LOAD	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00

~~~~~

| Type
(PhiI0)
(nodes:
(V0/Vfault) | Nm
SbLim
IOLim | Station
SbLim
IOLim | VL | Circuit
Busbar) | S"k
Ir(Vr) | Sbrk1
Is(Vs) | 3*I0
It(Vt) |
|---|----------------------|---------------------------|-------|--------------------|---------------|-----------------|----------------|
| ohlcb | 0
600 | MKY | 22kV | V19 | 0.0 o | 0.0 o | 0.00 o |
| | | MKY | 22kV | SBB1 | 0.00 | 0.00 | 0.00 |
| | 0 | | | | | | |
| FaultNd | 0 | MKY | 22kV | SBB | 0.0 o | | 0.00 o |
| -90.0 | | eISn | NetGr | | 0.0 | 24.2 | 24.2 14.0/ |

14.0

1

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Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

03 1f zkraty - zapojení s můstkem T401 + T403

ohlCb	0	MKY	22kv	V19	0.0 o	0.0 o	0.00 o
600		MKY	22kv	SBB	0.00	0.00	0.00
	0						
Trafo	0	MKY	110kv	T102_cmp	0.0 o	0.0 o	0.00 o
600		MKY	110kv	SBA1	0.00	0.00	0.00
	0						
-----							
FaultNd	0	MKY	22kv	SBB1	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MKY	22kv	SBB1LOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
Load	0	MKY	22kv	SBB2LOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00

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Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
Trafo	0	MKY	6kv	B1T01cmp	0.0 o	0.0 o	0.00 o
600		MKY	6kv	SBV.T01	0.00	0.00	0.00
	0						
-----							
FaultNd	0	MKY	6kv	B1T01cmp	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	6.9	6.9 4.0/
4.0	1						
~~~~~							

Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
Trafo	0	MKY	22kv	BAT01cmp	2.7 o	2.7 o	0.00 o
600		MKY	22kv	SBA	0.25	0.25	0.25
	0						
Trafo	0	MKY	6kv	B1T01cmp	0.0 o	0.0 o	0.00 o
600		MKY	6kv	B1T01cmp	0.00	0.00	0.00
	0						
Trafo	0	MKY	6kv	B3T01cmp	2.7 o	2.7 o	0.00 o
600		MKY	6kv	SBV.TG3	0.25	0.25	0.25
	0						

```

03 1f zkraty - zapojení s můstkem T401 + T403
FaultNd o MKY 6kV SBV.T01 0.0 o 0.00 o
-90.0 eISn NetGr
0.0 6.9 6.9 4.0/
4.0 1
~~~~~
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(v0/vfault) IOLim
=====

```

```

Trafo 0 MKY 6kV B3T01cmp 2.7 o 2.7 o 0.00 o
600
0 MKY 6kV SBV.T01 0.25 0.25 0.25
-----

```

```

FaultNd o MKY 6kV SBV.TG3 0.0 o 0.00 o
-90.0 eISn NetGr
0.0 6.9 6.9 4.0/
4.0 1
-----

```

```

Gen F MKY 6kV GEN.3cmp 0.0 o 0.0 o 0.00 o
600
0.00 0.00 0.00
~~~~~
~~~~~

```

```

=====
Type Nm Station VL Circuit S"k sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(v0/vfault) IOLim
=====

```

```

ohlCb 0 MWVEDENI 110kV 5573_MAD 81.6 o 3138.1 o 0.93 o
3500
15 MSVI 110kV SBV.T114 0.43 0.25 0.25
ohlCb 0 MWVEDENI 110kV 5501_MAD 701.6 o 2518.1 o 2.83 o
5000
10 MOKC 110kV SBB1 3.68 0.43 0.43
ohlCb 0 MWVEDENI 110kV _567_MAD 15.0 o 3204.4 o 0.24 o
3500
10 MVST 110kV SBB 0.08 0.08 0.08
ohlCb 0 MWVEDENI 110kV 5509_MAD 676.5 o 2542.9 o 2.71 o
5000
10 MMLE 110kV SBA1 3.55 0.42 0.42
BBC 0 MMAD 110kV SP1cmp 1745.2 o 1745.2 o 0.00 o
3500
0 MMAD 110kV SBB 9.16 0.52 0.52
0
-----

```

```

FaultNd o MMAD 110kV SBA 3219.4 o 16.90 o
-81.9 eISn NetGr
0.0 71.9 70.7 25.1/
69.9 1
~~~~~
~~~~~

```

03 1f zkraty - zapojení s můstkem T401 + T403

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlCb	0 3500	MWVEDENI	110kV	5572_MAD	128.2 o	3091.9 o	1.46 o
	15	MSVI	110kV	SBV.T115	0.67	0.39	0.39
ohlCb	0 3500	MWVEDENI	110kV	5574_MAD	55.9 o	3163.6 o	0.88 o
	10	MSLU	110kV	SBA1	0.29	0.29	0.29
ohlCb	0 5000	MWVEDENI	110kV	5502_MAD	701.6 o	2518.1 o	2.83 o
	10	MOKC	110kV	SBB1	3.68	0.43	0.43
ohlCb	0 5000	MWVEDENI	110kV	5503_MAD	725.4 o	2494.0 o	2.92 o
	10	MOKC	110kV	SBC1	3.81	0.45	0.45
BBC	0 3500	MMAD	110kV	SP1cmp	1474.3 o	1474.3 o	0.00 o
	0	MMAD	110kV	SBA	7.74	0.52	0.52
*Trafo	0 2500	MMAD	110kV	T101_cmp	52.3 oV	3167.4 oV	0.82 oV
	0	MMAD	22kV	SBA	0.27	0.27	0.27
*Trafo	0 2500	MMAD	110kV	T102_cmp	83.4 oV	3136.4 oV	1.31 oV
	0	MMAD	22kV	SBB3	0.44	0.44	0.44
E FaultNd	0	MMAD	110kV	SBB	3219.4 o		16.90 o
-81.9		eISn	NetGr		0.0	71.9	70.7 25.1/
69.9	1						
~~~~~							
Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	0 600	MMAD	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
	0	MMAD	110kV	SBB	0.00	0.00	0.00
FaultNd	0	MMAD	22kV	SBA	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						
Load	0 600	MMAD	22kV	SBALOAD	0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00

# 03 1f zkraty - zapojení s můstkem T401 + T403

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	0 600 0	MMAD	110kV	T102_cmp	0.0 o	0.0 o	0.00 o
		MMAD	110kV	SBB	0.00	0.00	0.00

FaultNd	0	MMAD	22kV	SBB3	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

Load	0 600	MMAD	22kV	SBB1LOAD	0.0 o	0.0 o	0.00 o
Load	0 600	MMAD	22kV	SBB2LOAD	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
*OhlCb	0 3500	MWVEDENI	110kV	5504_MLE	2572.7 oV	2572.7 oV	12.82 oV
		MOKC	110kV	SBC1	13.50	0.35	0.35
OhlCb	10 3500	MWVEDENI	110kV	5509_MAD	604.0 o	2572.7 o	3.85 o
		MMAD	110kV	SBA	3.17	0.35	0.35

FaultNd	0	MMLE	110kV	SBA1	3175.4 o		16.67 o
-82.4		eISn	NetGr		0.0	72.9	73.3 27.4/
69.9	1						

Load	F 3500	MMLE	110kV	T101LOAD	0.0 o	3175.4 o	0.00 o
					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

# 03 1f zkraty - zapojení s můstkem T401 + T403

ohlCb	O	MWVEDENI	110kV	_547_NAD	253.5 o	504.8 o	1.41 o
3500		MPNV	110kV	SBA1	1.33	0.04	0.04
10							
ohlCb	O	MWVEDENI	110kV	5540_KUN	504.8 o	504.8 o	2.57 o
3500		MKUN	110kV	SBA1	2.65	0.04	0.04
10							
-----							
FaultNd	O	MNA_D	110kV	SBA1	758.1 o		3.98 o
-78.0		eISn	NetGr		0.0	76.5	72.5 29.0/
69.9	1						
-----							
Load	F	MNA_D	110kV	T102LOAD	0.0 o	758.1 o	0.00 o
3500							
Load	F	MNA_D	110kV	T1LOAD	0.00	0.00	0.00
3500					0.0 o	758.1 o	0.00 o
					0.00	0.00	0.00

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Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
ohlCb	O	MWVEDENI	110kV	5575_NZD	455.8 o	455.8 o	1.85 o
3500		MOKC	110kV	SBB1	2.39	0.27	0.27
10							
ohlCb	O	MWVEDENI	110kV	5577_NZD	300.8 o	455.8 o	2.12 o
3500		MPRT	110kV	SBA	1.58	0.27	0.27
10							
-----							
FaultNd	O	MNZ_D	110kV	SBA1	756.6 o		3.97 o
-77.1		eISn	NetGr		0.0	77.2	74.5 30.5/
69.9	1						
-----							
Load	F	MNZ_D	110kV	T101LOAD	0.0 o	756.6 o	0.00 o
3500							
Load	F	MNZ_D	110kV	T111LOAD	0.00	0.00	0.00
3500					0.0 o	756.6 o	0.00 o
					0.00	0.00	0.00

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Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
=====							
Trafo	F	MOKC	10kV	T401_cmp	0.0 o	0.0 o	0.00 o
600							

03 1f zkraty - zapojení s můstkem T401 + T403							
0	MOKC	110kV	SBV.T401	0.00	0.00	0.00	
-----							
FaultNd	0	MOKC	10kV	SBT401	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	11.0	11.0 6.4/
6.4	1						
-----							
Load	0	MOKC	10kV	SBT401LO	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
~~~~~							
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	F	MOKC	10kV	T402_cmp	0.0 o	0.0 o	0.00 o
600							
0		MOKC	110kV	SBV.T402	0.00	0.00	0.00
-----							
FaultNd	0	MOKC	10kV	SBT402	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	11.0	11.0 6.4/
6.4	1						
-----							
Load	0	MOKC	10kV	SBT402LO	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
~~~~~							
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
Trafo	F	MOKC	10kV	T403_cmp	0.0 o	0.0 o	0.00 o
600							
0		MOKC	110kV	SBV.T403	0.00	0.00	0.00
-----							
FaultNd	F	MOKC	10kV	T403_cmp	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	11.0	11.0 6.4/
6.4	1						
~~~~~							
~~~~~							
=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					

## 03 1f zkraty - zapojení s můstkem T401 + T403

ohlCb	0	MWVEDENI	110kV	5570_OKC	120.9 o	1752.1 o	1.89 o
3500		MUBR	110kV	SBB	0.63	0.63	0.63
10		MWVEDENI	110kV	5571_OKC	120.9 o	1752.1 o	1.89 o
3500		MUBR	110kV	SBB	0.63	0.63	0.63
10		MWVEDENI	110kV	_545_KY_	98.9 o	1774.3 o	1.49 o
3500		MKY	110kV	SBA1	0.52	0.48	0.48
10		MWVEDENI	110kV	_546_KUN	107.2 o	1765.8 o	1.66 o
3500		MKUN	110kV	SBA1	0.56	0.55	0.55
10		MOKC	110kV	T402_cmp	1425.5 o	1425.5 o	2.92 o
Trafo	F	MOKC	110kV	SBV.T402	7.48	2.29	2.29
3500							
0							
FaultNd	0	MOKC	110kV	SBA1	1873.0 o		9.83 o
-84.9		eISn	NetGr		0.0	82.8	84.1 38.3/
69.9	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"K	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
ohlCb	0	MWVEDENI	110kV	5575_NZD	42.4 o	3946.2 o	0.67 o
5000		MNZ_D	110kV	SBA1	0.22	0.22	0.22
10		MWVEDENI	110kV	5501_MAD	91.3 o	3897.3 o	1.21 o
5000		MMAD	110kV	SBA	0.48	0.36	0.36
10		MWVEDENI	110kV	5502_MAD	91.3 o	3897.3 o	1.21 o
5000		MMAD	110kV	SBB	0.48	0.36	0.36
10		MWVEDENI	110kV	5506_BHN	114.2 oV	3874.6 oV	1.80 oV
*ohlCb	0	MBHN	110kV	SBA1	0.60	0.60	0.60
3500		MWVEDENI	110kV	_559_CHR	0.1 oV	3988.7 oV	0.00 oV
10		MCHR	110kV	SBA1	0.00	0.00	0.00
*ohlCb	0	MWVEDENI	110kV	_573_OKC	36.1 oV	3952.5 oV	0.57 oV
3500		MRYC	110kV	SBA1	0.19	0.19	0.19
10		MWVEDENI	110kV	5517_OKC	186.0 oV	3804.2 oV	2.93 oV
*ohlCb	0	MUHD	110kV	SBA1	0.98	0.98	0.98
3500		MWVEDENI	110kV	5519_FA_	0.0 oV	3988.6 oV	0.00 oV
10							
*ohlCb	0						
3500							

03 1f zkratky - zapojení s můstkem T401 + T403

	10	MFA	110kV	SBA1	0.00	0.00	0.00
BBC	0	MOKC	110kV	KP1cmp	2051.2 o	2051.2 o	0.00 o
	3500	MOKC	110kV	SBC1	10.77	0.39	0.39
	0	MOKC	110kV	T403_cmp	1378.2 o	2610.3 o	1.05 o
Trafo	5000	MOKC	110kV	SBV.T403	7.23	3.09	3.09
	0						

FaultNd	0	MOKC	110kV	SBB1	3988.5 o		20.93 o
-84.3		elSn	NetGr		0.0	70.6	71.4 24.7/
69.9	1						

Type (PhiI0) (nodes: (V0/vfault)	Nm SbLim	Station IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
*ohlcb	0	MWVEDENI	110kV	5576_OKC	68.0 oV	3920.6 oV	1.07 oV
	3500	MZDO	110kV	SBA1	0.36	0.36	0.36
ohlcb	0	MWVEDENI	110kV	5503_MAD	94.1 o	3894.5 o	1.24 o
	5000	MMAD	110kV	SBB	0.49	0.38	0.38
ohlcb	0	MWVEDENI	110kV	5504_MLE	87.6 o	3901.1 o	1.16 o
	5000	MMLE	110kV	SBA1	0.46	0.35	0.35
*ohlcb	0	MWVEDENI	110kV	5505_OKC	40.2 oV	3948.5 oV	0.63 oV
	3500	MOK_D	110kV	SBA1	0.21	0.21	0.21
*ohlcb	0	MWVEDENI	110kV	_550_HUN	63.5 oV	3925.1 oV	1.00 oV
	3500	MHUN	110kV	SBA1	0.33	0.33	0.33
*ohlcb	0	MWVEDENI	110kV	5516_OKC	186.0 oV	3804.2 oV	2.93 oV
	3500	MUHD	110kV	SBA1	0.98	0.98	0.98
*ohlcb	0	MWVEDENI	110kV	5518_FA_	0.0 oV	3988.6 oV	0.00 oV
	3500	MFA	110kV	SBA1	0.00	0.00	0.00
BBC	0	MOKC	110kV	KP1cmp	1937.4 o	1937.4 o	0.00 o
	3500	MOKC	110kV	SBB1	10.17	0.39	0.39
Trafo	0	MOKC	110kV	T401_cmp	1513.9 o	2474.7 o	3.55 o
	3500	MOKC	110kV	SBV.T401	7.95	2.21	2.20
	0						

E FaultNd	0	MOKC	110kV	SBC1	3988.5 o		20.93 o
-84.3		elSn	NetGr		0.0	70.6	71.4 24.7/
69.9	1						

# 03 1f zkraty - zapojení s můstkem T401 + T403

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	F	MOKC	400kV	T401_cmp	793.2 o	1940.3 o	3.57 o
3500		MOKC	400kV	SBA	4.16	0.30	0.31
0							
Trafo	F	MOKC	10kV	T401_cmp	0.0 o	1147.5 o	0.00 o
5000		MOKC	10kV	SBT401	0.00	0.00	0.00
0							
Trafo	F	MOKC	110kV	T401_cmp	1940.3 o	1940.3 o	9.58 o
3500		MOKC	110kV	SBC1	10.18	0.30	0.31
0							

FaultNd	0	MOKC	110kV	SBV.T401	1147.5 o		6.02 o
86.3		eISn	NetGr		0.0	79.1	78.8 33.8/
69.9	1						

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	F	MOKC	400kV	T402_cmp	828.0 o	828.0 o	0.29 o
3500		MOKC	400kV	SBB	4.35	2.18	2.17
0							
Trafo	F	MOKC	10kV	T402_cmp	0.0 o	1274.6 o	0.00 o
5000		MOKC	10kV	SBT402	0.00	0.00	0.00
0							
Trafo	F	MOKC	110kV	T402_cmp	447.3 o	828.0 o	6.70 o
5000		MOKC	110kV	SBA1	2.35	2.18	2.17
0							

FaultNd	0	MOKC	110kV	SBV.T402	1274.6 o		6.69 o
-84.4		eISn	NetGr		0.0	52.5	68.5 5.4/
69.9	1						

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

03 1f zkraty - zapojení s můstkem T401 + T403							
Trafo	F	MOKC	400kV	T403_cmp	754.0 o	2083.0 o	2.24 o
3500							
	0	MOKC	400kV	SBA	3.96	0.86	0.86
Trafo	F	MOKC	10kV	T403_cmp	0.0 o	1329.3 o	0.00 o
5000							
	0	MOKC	10kV	T403_cmp	0.00	0.00	0.00
Trafo	F	MOKC	110kV	T403_cmp	2083.0 o	2083.0 o	9.21 o
5000							
	0	MOKC	110kV	SBB1	10.93	0.86	0.86
-----							
FaultNd	O	MOKC	110kV	SBV.T403	1329.3 o		6.98 o
86.8		eISn	NetGr				
					0.0	77.3	78.3 32.6/
69.9	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
oh1Cb	F	MWVEDENI	400kV	417_OKC	2582.7 OX	2955.8 OX	3.74 OX
30000							
	0	MSO	400kV	SBV.KP2	3.73	0.13	0.09
BBC	F	MOKC	400kV	KP1cmp	2105.0 o	3434.5 o	0.00 o
25000							
	0	MOKC	400kV	SBB	3.04	1.12	1.12
Trafo	F	MOKC	400kV	T401_cmp	625.4 o	4905.2 o	2.65 o
25000							
	0	MOKC	110kV	SBV.T401	0.90	0.88	0.88
Trafo	F	MOKC	400kV	T403_cmp	193.8 o	5336.8 o	0.78 o
25000							
	0	MOKC	110kV	SBV.T403	0.28	0.25	0.25
-----							
FaultNd	F	MOKC	400kV	SBA	5530.6 o		7.98 o
-84.1		eISn	NetGr				
					0.0	353.8	338.0
178.0/254.0	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
BBC	F	MOKC	400kV	KP1cmp	3434.5 o	3434.5 o	0.00 o
25000							
	0	MOKC	400kV	SBA	4.96	1.12	1.12
Trafo	F	MOKC	400kV	T402_cmp	190.4 o	5340.2 o	0.81 o
25000							
	0	MOKC	110kV	SBV.T402	0.27	0.27	0.27

## 03 1f zkraty - zapojení s můstkem T401 + T403

0

```

-----
E FaultNd F MOKC 400kV SBB 5530.6 o 7.98 o
-84.1 eISn NetGr
0.0 353.8 338.0
178.0/254.0 1
-----

```

```

-----
Inj F MOKC 400kV INJ.V418 1915.4 o 3624.9 o 0.00 o
20000
2.76 1.38 1.38
-----

```

~~~~~

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/vfault) IOLim
=====
ohlCb 0 MWVEDENI 110kV 5505_OKC 1948.5 o 1948.5 o 9.83 o
5000
MOKC 110kV SBC1 10.23 0.20 0.20
10
ohlCb 0 MWVEDENI 110kV 5508_BAR 959.8 o 1948.5 o 5.43 o
3500
MBAR 110kV SBA1 5.04 0.20 0.20
10
-----

```

```

-----
FaultNd 0 MOK_D 110kV SBA1 2908.3 o 15.26 o
-81.2 eISn NetGr
0.0 73.7 74.0 28.3/
69.9 1
-----

```

```

-----
Load F MOK_D 110kV T101LOAD 0.0 o 2908.3 o 0.00 o
3500
0.00 0.00 0.00
-----

```

~~~~~

```

=====
Type Nm Station VL Circuit S"k Sbrk1 3*I0
(PhiI0) SbLim
(nodes: Busbar) Ir(Vr) Is(Vs) It(Vt)
(V0/vfault) IOLim
=====
ohlCb 0 MWVEDENI 110kV _542_HO_ 460.1 o 460.1 o 1.91 o
3500
MHO 110kV SBB1 2.41 0.25 0.25
10
ohlCb 0 MWVEDENI 110kV _547_NAD 263.9 o 549.0 o 0.96 o
3500
MNA_D 110kV SBA1 1.39 0.22 0.22
10
Trafo 0 MPNV 110kV T101_cmp 89.6 o 724.0 o 1.41 o
3500
MPNV 22kV SBA1 0.47 0.47 0.47
0
-----

```

```

-----
FaultNd 0 MPNV 110kV SBA1 812.9 o 4.27 o
-77.6 eISn NetGr
-----

```

## 03 1f zkraty - zapojení s můstkem T401 + T403

0.0 73.3 67.6 24.2/

69.9 1

~~~~~

~~~~~

=====

=====

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

=====

=====

Trafo	0	MPNV	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
	600						
	0	MPNV	110kV	SBA1	0.00	0.00	0.00

-----

-----

FaultNd	0	MPNV	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2

14.0 1

-----

-----

Load	0	MPNV	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00
Load	0	MPNV	22kV	SBA2LOAD	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00

~~~~~

~~~~~

=====

=====

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

=====

=====

ohlCb	0	MWVEDENI	110kV	5577_NZD	326.5 o	529.9 o	0.80 o
	3500						
	10	MNZ_D	110kV	SBA1	1.71	0.46	0.46
ohlCb	0	MWVEDENI	110kV	5578_PRT	355.4 o	501.0 o	0.95 o
	3500						
	10	MZDO	110kV	SBA1	1.87	0.46	0.46
ohlCb	0	MWVEDENI	110kV	5594_KNC	32.0 o	824.3 o	0.50 o
	3500						
	10	MKNC	110kV	SBA1	0.17	0.17	0.17
ohlCb	0	MWVEDENI	110kV	_556_PRT	0.1 o	856.4 o	0.00 o
	3500						
	10	MWVEDENI	110kV	_556_PRT	0.00	0.00	0.00
Trafo	0	MPRT	110kV	T103_cmp	70.5 o	786.1 o	1.11 o
	35000						
	0	MPRT	22kV	SBB1	0.37	0.37	0.37
Trafo	0	MPRT	110kV	T101_cmp	72.6 o	783.9 o	1.14 o
	35000						
	0	MPRT	22kV	SBA1	0.38	0.38	0.38

-----

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FaultNd	0	MPRT	110kV	SBA	856.3 o		4.49 o
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03 1f zkratý - zapojení s můstkem T401 + T403  
 -77.9 elSn NetGr 0.0 71.1 65.0 20.9/  
 69.9 1

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 ~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	0 600 0	MPRT	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
		MPRT	110kV	SBA	0.00	0.00	0.00

FaultNd	0	MPRT	22kV	SBA1	0.0 o		0.00 o
-90.0		elSn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

Load	0 600	MPRT	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
Load	0 600	MPRT	22kV	SBA2LOAD	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
					0.00	0.00	0.00

~~~~~  
 ~~~~~

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	0 600 0	MPRT	110kV	T103_cmp	0.0 o	0.0 o	0.00 o
		MPRT	110kV	SBA	0.00	0.00	0.00

FaultNd	0	MPRT	22kV	SBB1	0.0 o		0.00 o
-90.0		elSn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

Load	0 600	MPRT	22kV	SBB1LOAD	0.0 o	0.0 o	0.00 o
Load	0 600	MPRT	22kV	SBB2LOAD	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
					0.00	0.00	0.00

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 ~~~~~

Type (PhiI0) (nodes:	Nm SbLim	Station	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
----------------------------	-------------	---------	----	--------------------	---------------	-----------------	----------------

03 1f zkraty - zapojení s můstkem T401 + T403

(V0/Vfault) IOLim

=====							
=====							
ohlCb	0	MWVEDENI	110kV	_573_OKC	569.4 o	569.4 o	2.23 o
5000							
	10	MOKC	110kV	SBB1	2.99	0.39	0.39
Trafo	0	MRYC	110kV	T101_cmp	73.5 o	569.4 o	1.16 o
2500							
	0	MRYC	22kV	SB.A1	0.39	0.39	0.39
0							
-----							
FaultNd	0	MRYC	110kV	SBA1	642.4 o		3.37 o
-77.4		eISn	NetGr				
					0.0	81.7	76.6 34.1/
69.9	1						
~~~~~							
~~~~~							

=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim					
(nodes:				Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(V0/Vfault)	IOLim						
=====							
Trafo	0	MRYC	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
600							
	0	MRYC	110kV	SBA1	0.00	0.00	0.00
0							
-----							
FaultNd	0	MRYC	22kV	SB.A1	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2 14.0/
14.0	1						
-----							
Load	0	MRYC	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
600							
	0	MRYC	22kV	SBA2LOAD	0.00	0.00	0.00
600					0.0 o	0.0 o	0.00 o
					0.00	0.00	0.00
~~~~~							
~~~~~							

=====							
Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim					
(nodes:				Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(V0/Vfault)	IOLim						
=====							
ohlCb	0	MWVEDENI	110kV	5510_SLM	509.7 o	509.7 o	1.75 o
3500							
	10	MUBR	110kV	SBB	2.68	0.47	0.47
Trafo	0	MSLM	110kV	T101_cmp	89.2 o	509.7 o	1.40 o
3500							
	0	MSLM	22kV	SBA1	0.47	0.47	0.47
0							
-----							
FaultNd	0	MSLM	110kV	SBA1	598.2 o		3.14 o
-73.2		eISn	NetGr				

## 03 1f zkraty - zapojení s můstkem T401 + T403

0.0 78.5 66.9 27.2/

69.9 1

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=====

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

=====

Trafo	0	MSLM	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
	600						
	0	MSLM	110kV	SBA1	0.00	0.00	0.00

-----

FaultNd	0	MSLM	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr				
					0.0	24.2	24.2 14.0/

14.0 1

-----

Load	0	MSLM	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
	600						
					0.00	0.00	0.00

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=====

=====

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

=====

ohlCb	0	MWVEDENI	110kV	5574_MAD	937.9 o	937.9 o	4.07 o
	5000						
	10	MMAD	110kV	SBB	4.92	0.43	0.43
ohlCb	0	MWVEDENI	110kV	_568_VST	253.5 o	1040.9 o	1.10 o
	3500						
	10	MVST	110kV	SBB	1.33	0.12	0.11
Trafo	0	MSLU	110kV	T101_cmp	104.1 o	1191.3 o	1.64 o
	3500						
	0	MSLU	22kV	SBA1	0.55	0.55	0.55

-----

FaultNd	0	MSLU	110kV	SBA1	1294.2 o		6.79 o
-75.8		eISn	NetGr				
					0.0	77.9	72.7 30.0/

69.9 1

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=====

=====

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	--------------------	---------------	-----------------	----------------

=====

Trafo	0	MSLU	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
-------	---	------	-------	----------	-------	-------	--------

03 1f zkraty - zapojení s můstkem T401 + T403

600	MSLU	110kV	SBA1	0.00	0.00	0.00	
0							
-----							
FaultNd o	MSLU	22kV	SBA1	0.0 o		0.00 o	
-90.0	eISn	NetGr		0.0	24.2	24.2	14.0/
14.0	1						
-----							
Load o	MSLU	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o	
600							
Load o	MSLU	22kV	SBA2LOAD	0.00	0.00	0.00	
600				0.0 o	0.0 o	0.00 o	
				0.00	0.00	0.00	
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
OhlCb o	MWVEDENI	110kV	5573_MAD	2746.4 o	2746.4 o	13.91 o	
5000	MMAD	110kV	SBA	14.42	0.25	0.25	
15	MSVI	110kV	T114_cmp	93.5 oV	2746.4 oV	1.00 oV	
*Trafo F	MSVI	6kV	SBA	0.49	0.25	0.25	
2500							
0							
-----							
FaultNd o	MSVI	110kV	SBV.T114	2839.4 o		14.90 o	
-81.2	eISn	NetGr		0.0	73.1	71.8	26.6/
69.9	1						
~~~~~							
~~~~~							

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
=====							
OhlCb o	MWVEDENI	110kV	5572_MAD	2714.4 o	2714.4 o	13.44 o	
3500	MMAD	110kV	SBB	14.25	0.41	0.41	
15	MSVI	110kV	T115_cmp	142.4 oV	2714.4 oV	1.56 oV	
*Trafo F	MSVI	6kV	SBA	0.75	0.41	0.41	
2500							
0							
-----							
FaultNd o	MSVI	110kV	SBV.T115	2855.6 o		14.99 o	
-81.3	eISn	NetGr		0.0	73.0	71.6	26.4/
69.9	1						
~~~~~							
~~~~~							

## 03 1f zkraty - zapojení s můstkem T401 + T403

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
Trafo	F 600	MSVI	110kV	T114_cmp	3.1 o	3.1 o	0.00 o
	0	MSVI	110kV	SBV.T114	0.28	0.28	0.28
Trafo	F 600	MSVI	110kV	T115_cmp	4.9 o	4.9 o	0.00 o
	0	MSVI	110kV	SBV.T115	0.45	0.45	0.45
FaultNd -90.0	F 1	MSVI elSn	6kV NetGr	SBA	0.0 o		0.00 o
4.0					0.0	6.9	6.9 4.0/
Load	F 600	MSVI	6kV	SBALOAD	0.0 o	0.0 o	0.00 o
Gen	F 600	MSVI	6kV	GEN31cmp	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
Gen	F 600	MSVI	6kV	GEN6cmp	0.00 0.0 o	0.00 0.0 o	0.00 0.00 o
					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
ohlCb	0 5000	MWVEDENI	110kV	5570_OKC	462.5 o	879.3 o	1.12 o
	10	MOKC	110kV	SBA1	2.43	0.66	0.66
ohlCb	0 5000	MWVEDENI	110kV	5571_OKC	462.5 o	879.3 o	1.12 o
	10	MOKC	110kV	SBA1	2.43	0.66	0.66
ohlCb	0 3500	MWVEDENI	110kV	_543_UBR	189.5 o	1152.3 o	1.23 o
	10	MVKA	110kV	SBA3	0.99	0.12	0.12
ohlCb	0 3500	MWVEDENI	110kV	5510_SLM	52.4 o	1289.4 o	0.82 o
	10	MSLM	110kV	SBA1	0.27	0.28	0.27
Trafo	0 3500	MUBR	110kV	T101_cmp	87.1 o	1254.9 o	1.37 o
	0	MUBR	22kV	SBA1	0.46	0.46	0.46
Trafo	0 3500	MUBR	110kV	T102_cmp	88.4 o	1253.6 o	1.39 o
	0	MUBR	22kV	SBB1	0.46	0.46	0.46

# 03 1f zkraty - zapojení s můstkem T401 + T403

FaultNd	0	MUBR	110kV	SBB	1341.8	0	7.04	0
-80.8		eISn	NetGr		0.0	73.8	68.9	25.3/
69.9	1							

Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----	------------------	----	--------------------	---------------	-----------------	----------------

Trafo	0	MUBR	110kV	T101_cmp	0.0	0.0	0.00
600		MUBR	110kV	SBB	0.00	0.00	0.00
0							

FaultNd	0	MUBR	22kV	SBA1	0.0	0	0.00	0
-90.0		eISn	NetGr		0.0	24.2	24.2	14.0/
14.0	1							

Load	0	MUBR	22kV	SBA1LOAD	0.0	0	0.00	0
600					0.00	0.00	0.00	
Load	0	MUBR	22kV	SBA2LOAD	0.0	0	0.00	0
600					0.00	0.00	0.00	

Type (PhiI0) (nodes: (V0/Vfault)	Nm	Station SbLim	VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----	------------------	----	--------------------	---------------	-----------------	----------------

Trafo	0	MUBR	110kV	T102_cmp	0.0	0	0.00	0
600		MUBR	110kV	SBB	0.00	0.00	0.00	
0								

FaultNd	0	MUBR	22kV	SBB1	0.0	0	0.00	0
-90.0		eISn	NetGr		0.0	24.2	24.2	14.0/
14.0	1							

Load	0	MUBR	22kV	SBB1LOAD	0.0	0	0.00	0
600					0.00	0.00	0.00	
Load	0	MUBR	22kV	SBB2LOAD	0.0	0	0.00	0
600					0.00	0.00	0.00	

03 1f zkratky - zapojení s můstkem T401 + T403

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
		IOLim				
ohlCb	0	MWVEDENI	110kV	5516_OKC	840.7 o	1592.6 o
	5000					0.47 o
		MOKC	110kV	SBC1	4.41	1.97
	10					1.97
ohlCb	0	MWVEDENI	110kV	5517_OKC	840.7 o	1592.6 o
	5000					0.47 o
		MOKC	110kV	SBB1	4.41	1.97
	10					1.97
Trafo	0	MUHD	110kV	T101_cmp	752.1 o	1681.4 o
	3500					11.84 o
		MUHD	22kV	SBA	3.95	3.95
	0					3.95

FaultNd	0	MUHD	110kV	SBA1	2433.3 o	12.77 o
-74.3		eISn	NetGr			
				0.0	62.9	59.0
69.9	1					5.1/

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
		IOLim				
Trafo	0	MUHD	110kV	T101_cmp	0.0 o	0.00 o
	600					0.00 o
		MUHD	110kV	SBA1	0.00	0.00
	0					0.00

FaultNd	0	MUHD	22kV	SBA	0.0 o	0.00 o
-90.0		eISn	NetGr			
				0.0	24.2	24.2
14.0	1					14.0/

Load	0	MUHD	22kV	SBALOAD	0.0 o	0.00 o
	600					0.00 o
				0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim	Station VL	Circuit Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
		IOLim				
ohlCb	0	MWVEDENI	110kV	_540_VKA	273.2 o	600.2 o
	3500					1.57 o
		MVLM	110kV	SBA7	1.43	0.07
	10					0.07
ohlCb	0	MWVEDENI	110kV	_543_UBR	542.4 o	542.4 o
	3500					2.11 o
		MUBR	110kV	SBB	2.85	0.37
	10					0.37

03 1f zkraty - zapojení s můstkem T401 + T403									
Trafo	0	MVKA	110kv	T103_cmp	58.1 o	815.7 o	0.92 o		
3500									
	0	MVKA	22kv	SBA	0.30	0.31	0.31		
-----									
FaultNd	0	MVKA	110kv	SBA3	873.4 o		4.58 o		
-78.2		eISn	NetGr						
					0.0	75.8	70.4	27.4/	
69.9	1								
-----									
Load	F	MVKA	110kv	T102LOAD	0.0 o	873.4 o	0.00 o		
3500									
					0.00	0.00	0.00		
~~~~~									
~~~~~									
=====									
Type	Nm	Station	VL	Circuit	S''k	Sbrk1	3*I0		
(PhiI0)		SbLim							
(nodes:				Busbar)	Ir(Vr)	Is(Vs)	It(Vt)		
(V0/vfault)		IOLim							
=====									
Trafo	0	MVKA	110kv	T103_cmp	0.0 o	0.0 o	0.00 o		
600									
	0	MVKA	110kv	SBA3	0.00	0.00	0.00		
-----									
FaultNd	0	MVKA	22kv	SBA	0.0 o		0.00 o		
-90.0		eISn	NetGr						
					0.0	24.2	24.2	14.0/	
14.0	1								
-----									
Load	0	MVKA	22kv	SBALOAD	0.0 o	0.0 o	0.00 o		
600									
					0.00	0.00	0.00		
~~~~~									
~~~~~									
=====									
Type	Nm	Station	VL	Circuit	S''k	Sbrk1	3*I0		
(PhiI0)		SbLim							
(nodes:				Busbar)	Ir(Vr)	Is(Vs)	It(Vt)		
(V0/vfault)		IOLim							
=====									
ohlCb	0	MWVEDENI	110kv	_540_VKA	427.3 o	427.3 o	1.83 o		
3500									
	10	MVKA	110kv	SBA3	2.24	0.21	0.21		
ohlCb	0	MWVEDENI	110kv	_544_HO_	310.2 o	484.9 o	1.44 o		
3500									
	10	MHO	110kv	SBB1	1.63	0.10	0.10		
Trafo	0	MVLM	110kv	T103_cmp	57.9 o	737.6 o	0.91 o		
3500									
	0	MVLM	22kv	SBA1	0.30	0.30	0.30		
-----									
FaultNd	0	MVLM	110kv	SBA7	795.1 o		4.17 o		
-77.8		eISn	NetGr						
					0.0	75.7	70.1	27.2/	

## 03 1f zkraty - zapojení s můstkem T401 + T403

69.9

1

Load	F	MVLM	110kV	T102LOAD	0.0 o	795.1 o	0.00 o
3500					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit (Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	---------------------	---------------	-----------------	----------------

Trafo	0	MVLM	110kV	T103_cmp	0.0 o	0.0 o	0.00 o
600		MVLM	110kV	SBA7	0.00	0.00	0.00
0							

FaultNd	0	MVLM	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

Load	0	MVLM	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
Load	0	MVLM	22kV	SBA2LOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit (Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	---------------------	---------------	-----------------	----------------

ohlCb	0	MWVEDENI	110kV	_567_MAD	479.6 o	479.6 o	2.41 o
5000		MMAD	110kV	SBA	2.52	0.06	0.06
10							
ohlCb	0	MWVEDENI	110kV	_568_VST	433.0 o	479.6 o	2.38 o
3500		MSLU	110kV	SBA1	2.27	0.06	0.06
10							

FaultNd	F	MVST	110kV	SBB	912.5 o		4.79 o
-73.9		eISn	NetGr		0.0	81.5	77.0 34.2/
69.9	1						

Type (PhiI0) (nodes: (V0/Vfault)	Nm SbLim IOLim	Station SbLim IOLim	VL	Circuit (Busbar)	S"k Ir(Vr)	Sbrk1 Is(Vs)	3*I0 It(Vt)
-------------------------------------------	----------------------	---------------------------	----	---------------------	---------------	-----------------	----------------

# 03 1f zkraty - zapojení s můstkem T401 + T403

ohlcb	0	MWVEDENI	110kV	_556_PRT	402.4 o	402.4 o	2.11 o
3500		MPRT	110kV	SBA	2.11	0.00	0.00
10							

FaultNd	0	MWVEDENI	110kV	_556_PRT	402.4 o		2.11 o
-74.3		eISn	NetGr		0.0	80.1	75.5 32.6/
69.9	1						

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
ohlcb	0	MWVEDENI	110kV	5576_OKC	782.1 o	782.1 o	3.14 o
5000		MOKC	110kV	SBC1	4.10	0.49	0.49
10							
ohlcb	0	MWVEDENI	110kV	5578_PRT	216.5 o	845.4 o	1.44 o
3500		MPRT	110kV	SBA	1.14	0.15	0.15
10							
Trafo	0	MZDO	110kV	T101_cmp	64.0 o	998.6 o	1.01 o
3500		MZDO	22kV	SBA1	0.34	0.34	0.34
0							

FaultNd	0	MZDO	110kV	SBA1	1061.9 o		5.57 o
-78.1		eISn	NetGr		0.0	76.3	73.4 29.4/
69.9	1						

Type	Nm	Station	VL	Circuit	S"k	Sbrk1	3*I0
(PhiI0)		SbLim		Busbar)	Ir(Vr)	Is(Vs)	It(Vt)
(nodes:							
(V0/Vfault)		IOLim					
Trafo	0	MZDO	110kV	T101_cmp	0.0 o	0.0 o	0.00 o
600		MZDO	110kV	SBA1	0.00	0.00	0.00
0							

FaultNd	0	MZDO	22kV	SBA1	0.0 o		0.00 o
-90.0		eISn	NetGr		0.0	24.2	24.2 14.0/
14.0	1						

Load	0	MZDO	22kV	SBA1LOAD	0.0 o	0.0 o	0.00 o
600					0.00	0.00	0.00
Load	0	MZDO	22kV	SBA2LOAD	0.0 o	0.0 o	0.00 o
600							

03 1f zkraty - zapojení s můstkem T401 + T403

0.00

0.00

0.00

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## **VYPOČTENÉ HODNOTY**

### **USTÁLENÝ CHOD SÍTĚ PŘI VÝPADKU PŘÍPOJNICE „C“ V OTROKOVICÍCH**

# UCH - Výpadek přípojnice C v OKC

Load Flow Calculation Tue 03.05.11 10:42:14 Start: manual Name:05020906  
Copenr:35

## PROGRAM CHARACTERISTICS

392 nodes	221 lines/cables
272 loads	14 busbar couplers
14 generators	204 transformers
38 injections/equiv.injections	0 equivalent branches
	6 shunts
4 electrical sub-networks	
3 iterations	
5 balance diagnosis	
0 limit violations	

## Generations, Loads and Losses

Network Membership no. undef.v	no.	own	no. subjac.	no. boundry	no. foreign
Line&Coupl.	213	-14.2	0	0.0	22
0					
Sum Ploss [MW]		102.0	0.0	0.0	-4.0
0					
Qloss [MVar]					258.2
0					
Transform.	149	-6.8	0	0.0	55
0					
Sum Ploss [MW]		-88.4	0.0	0.0	-4.4
0					
Qloss [MVar]					-94.8
0					
Shunts	4	-0.1	0	0.0	2
0					
Sum Ploss [MW]		16.8	0.0	0.0	0.0
0					
Qloss [MVar]					11.2
0					
EquivBrch.	0	0.0	0	0.0	0
0					
Sum Ploss [MW]		0.0	0.0	0.0	0.0
0					
Qloss [MVar]					0.0
0					
Network Membership no. undef.v	no.	own	no. subjac.	no. boundry	no. foreign
Loads	201	-1340.1	0	0.0	47
0					
Sum P(+)		-168.9	0.0	0.0	-201.3
0					
Sum Q(+)					25.7
0					

# UCH - výpadek přípojnice C v OKC

0.0									
-----									
Generat.	Sum P(+)	[MW ]	0	0.0	0	0.0	0	0.0	11 152.6
0	0.0								
	Sum Q(+)	[MVar]		0.0		0.0		0.0	35.5
	0.0								
-----									
Injections	Sum P(+)	[MW ]	2	32.0	0	0.0	0	0.0	21 5589.3
0	0.0								
	Sum Q(+)	[MVar]		4.6		0.0		0.0	-143.0
	0.0								
=====									
Loads	Sum P(-)	[MW ]	21	51.5	0	0.0	0	0.0	3 2.9
0	0.0								
	Sum Q(-)	[MVar]		-44.6		0.0		0.0	-45.3
	0.0								
-----									
Generat.	Sum P(-)	[MW ]	0	0.0	0	0.0	0	0.0	3 -1.2
0	0.0								
	Sum Q(-)	[MVar]		0.0		0.0		0.0	1.0
	0.0								
-----									
Injections	Sum P(-)	[MW ]	1	-0.4	0	0.0	0	0.0	14 -4256.0
0	0.0								
	Sum Q(-)	[MVar]		0.4		0.0		0.0	129.1
	0.0								
=====									
Zero_Inj.	Sum P	[MW ]	159	0.0	0	0.0	0	0.0	21 -0.1
0	0.0								
	Sum Q	[MVar]		0.1		0.0		0.0	0.1
	0.0								
=====									
=====									

```

*****
* Total Losses P [MW ] -20.942 *
* (no shunts) Q [MVar] 13.592 *
* Total Load P [MW ] -1288.686 *
* Q [MVar] -213.501 *
* Total Gener. P [MW ] 0.000 *
* Q [MVar] 0.000 *
*****

```

=====											
-----											
---Network Group--		Nu.of	No.	P-Gen	Q-Gen	No.	P-Load	Q-Load	No.		
P-Loss	Q-Loss										
Num	Name	Type	NA	nod	Gen.	[MW]	[Mvar]	Loads	[MW]	[Mvar]	4pol.
[MW]	[Mvar]										
-----											
23	MTVVN023	dyn.	81	0	0.0	0.0	132	-814.7	-136.6	88	
-4.3	-62.6										
16	LnJMEfor	dyn.	48	2	42.3	1.8	8	-14.8	-4.4	61	
-2.4	23.8										
39	SCADA23	fix	27	0	0.0	0.0	6	9.1	28.3	30	
-3.8	55.6										
6	InJCEfor	fix	23	0	0.0	0.0	10	-35.5	-12.5	28	
-0.4	20.4										
8	InJMEfor	fix	23	0	0.0	0.0	8	-29.5	-5.9	28	
-5.5	43.4										
4	GeJMEfor	fix	19	0	0.0	0.0	7	-41.2	-6.6	22	

UCH - výpadek přípojnice C v OKC

-0.7 16.9								
18 SCADA02 dyn.	17	0	0.0	0.0	6	-19.0	0.5	25
-0.3 21.3								
1 GeJCEown dyn.	15	0	0.0	0.0	6	-22.8	-2.8	20
-1.1 9.5								
3 GeJMEown dyn.	13	10	91.3	28.3	5	-63.2	-12.1	16
-0.7 -7.8								
5 InJCEown dyn.	11	0	0.0	0.0	4	-12.2	-0.9	13
-1.4 -3.3								
7 InJMEown dyn.	10	0	0.0	0.0	4	-7.3	11.5	13
-3.2 25.6								
10 TrJCEfor dyn.	8	1	7.4	0.6	2	-8.4	-0.6	9
-0.1 3.2								
30 MTVVN030 fix	8	1	10.4	5.8	2	-9.4	-3.9	8
-0.2 0.1								
9 TrJCEown dyn.	8	0	0.0	0.0	1	-0.2	1.1	11
-0.8 6.9								
31 MTVVN031 fix	6	0	0.0	0.0	0	0.0	0.0	5
-0.2 3.2								
63 RPELT101 fix	5	0	0.0	0.0	0	0.0	0.0	4
-1.8 43.9								
40 SCADA24 dyn.	2	0	0.0	0.0	2	-7.8	-1.7	2
-0.1 -0.5								
49 RPIST102 fix	2	0	0.0	0.0	0	0.0	0.0	3
-0.1 0.2								
59 RHUMT101 fix	2	0	0.0	0.0	3	-21.0	-0.7	2
-0.1 -0.9								
20 MTVVN020 fix	1	0	0.0	0.0	1	-2.3	-1.2	1
-0.0 -0.2								
21 MTVVN021 fix	1	0	0.0	0.0	2	-7.7	-3.3	1
-0.0 -0.2								
22 MTVVN022 fix	1	0	0.0	0.0	2	-2.4	0.0	1
-0.0 -0.2								
12 TrJMEfor fix	1	0	0.0	0.0	1	0.1	-0.9	1
-0.0 -0.0								
24 MTVVN024 fix	1	0	0.0	0.0	2	-9.3	-2.0	1
-0.0 -0.5								
25 MTVVN025 fix	1	0	0.0	0.0	2	-5.3	-0.7	1
-0.0 -0.2								
26 MTVVN026 fix	1	0	0.0	0.0	1	-8.4	-1.8	1
-0.1 -0.5								
27 MTVVN027 fix	1	0	0.0	0.0	1	-8.0	-2.1	1
-0.1 -0.4								
28 MTVVN028 fix	1	0	0.0	0.0	1	-3.5	-1.0	1
-0.1 -0.4								
29 MTVVN029 fix	1	0	0.0	0.0	1	-4.0	-2.7	1
-0.0 -0.2								
13 LnJCEown dyn.	1	0	0.0	0.0	1	0.5	-0.5	1
-0.0 -0.2								
15 LnJMEown dyn.	1	0	0.0	0.0	1	-4.2	-2.0	1
-0.0 -0.1								
32 MTVVN032 fix	1	0	0.0	0.0	2	-10.9	1.6	1
-0.1 -0.7								
33 MTVVN033 fix	1	0	0.0	0.0	2	-2.5	-0.2	1
-0.0 -0.0								
34 MTVVN034 dyn.	1	0	0.0	0.0	2	-7.8	-0.3	1
-0.0 -0.3								
35 MTVVN035 dyn.	1	0	0.0	0.0	2	-5.4	-1.3	1
-0.0 -0.2								
36 MTVVN036 dyn.	1	0	0.0	0.0	2	-8.9	-3.4	1
-0.0 -0.4								
37 MTVVN037 fix	1	0	0.0	0.0	2	-6.4	-0.2	1
-0.0 -0.4								
38 SCADA22 fix	1	0	0.0	0.0	2	-1.4	-0.3	1
-0.0 -0.3								
14 LnJCEfor dyn.	1	0	0.0	0.0	1	-8.8	-2.1	1
-0.0 -0.4								
17 SCADA01 dyn.	1	0	0.0	0.0	1	-7.4	-2.9	1
-0.0 -0.3								

UCH - výpadek přípojnice C v OKC									
41 SCADA25 dyn.	1	0	0.0	0.0	1	-1.5	-2.4	1	
-0.0 -0.1									
42 RPRAT101 fix	1	0	0.0	0.0	1	-11.3	-2.0	1	
-0.1 -0.5									
43 RPRAT102 fix	1	0	0.0	0.0	1	-5.2	-1.9	1	
-0.1 -0.5									
44 RSTRT101 fix	1	0	0.0	0.0	1	-0.2	-2.0	1	
-0.1 -0.4									
45 RSTRT102 fix	1	0	0.0	0.0	1	-2.0	-1.3	1	
-0.1 -0.1									
46 RMRCT101 fix	1	0	0.0	0.0	1	-2.6	-1.9	1	
-0.0 -0.0									
47 RMRCT102 fix	1	0	0.0	0.0	2	-24.4	-2.9	1	
-0.1 -1.8									
48 RPIST101 fix	1	0	0.0	0.0	2	4.6	-5.1	1	
-0.0 -0.2									
11 TrJMEown dyn.	1	0	0.0	0.0	1	-3.3	-0.5	1	
-0.0 -0.2									
50 RDAST401 dyn.	1	0	0.0	0.0	1	-3.1	-3.4	1	
-0.0 -0.2									
51 RDAST402 fix	1	0	0.0	0.0	1	-11.5	-1.9	1	
-0.1 -0.6									
52 RKOCT401 fix	1	0	0.0	0.0	1	-5.4	-0.9	1	
-0.0 -0.3									
53 RKOCT402 fix	1	0	0.0	0.0	1	-6.0	-1.1	1	
-0.0 -0.3									
54 RTABT201 fix	1	0	0.0	0.0	1	-10.8	-1.6	1	
-0.0 -0.7									
55 RELI_TG1 fix	1	0	0.0	0.0	1	-2.7	0.2	1	
-0.0 -0.2									
56 RELI_TG2 fix	1	0	0.0	0.0	1	-8.0	-1.8	1	
-0.0 -0.3									
57 RMRC1964 fix	1	0	0.0	0.0	1	-7.5	-1.8	1	
-0.0 -0.3									
58 RMRC1965 fix	1	0	0.0	0.0	2	-7.6	-1.7	1	
-0.0 -0.3									
19 SCADA03 dyn.	1	0	0.0	0.0	1	-2.0	0.3	1	
-0.0 -0.2									
61 RHUM1389 fix	1	0	0.0	0.0	3	-102.7	-12.7	1	
-0.4 -5.3									
2 GeJCEfor dyn.	1	0	0.0	0.0	1	-2.4	-0.1	1	
-0.0 -0.0									
64 RPELT102 fix	1	0	0.0	0.0	1	-1.6	-0.7	1	
-0.0 -0.1									
65 RPACT101 fix	1	0	0.0	0.0	1	-8.4	-1.8	1	
-0.0 -0.3									
66 RPACT102 fix	1	0	0.0	0.0	1	-11.3	-2.1	1	
-0.1 -0.8									
67 RPOCT101 fix	1	0	0.0	0.0	1	-8.9	-1.7	1	
-0.1 -0.6									
68 RTABT101 fix	1	0	0.0	0.0	1	-18.3	-4.6	1	
-0.0 -1.0									
69 RTABT102 fix	1	0	0.0	0.0	1	-5.1	-0.3	1	
-0.0 -0.1									
70 RBEXT101 fix	1	0	0.0	0.0	1	-4.0	-0.4	1	
-0.0 -0.1									
71 RBEXT102 fix	1	0	0.0	0.0	1	-1.5	-0.3	1	
-0.0 -0.0									

#### Modification Factors and Limits

Voltage Level [kV]	400.0	220.0	110.0	24.0	22.0
15.0					
Factors I	100.00 nmod	100.00 nmod	100.00 nmod	100.00 nmod	100.00 nmod

# UCH - Výpadek přípojnice C v OKC

100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

vlow 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

voltage Level [kV] 10.0 6.3

Factors I 100.00 nmod 100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod

vlow 100.00 nmod 100.00 nmod

voltage Level [kV] all

Factors Qupp 100.00 nmod

qlow 100.00 nmod

## FLAGS

-----  
column1/2

* = diagnosis indication (discrepancies/limit violations)

E = eliminated node

## Calculated Value

O measurand (balance) U prov. splitted balance

X undefined i invalid

S pseudo measurement V limit violation

## Taps

p Phase shifter transformer

u Tap changer is at low voltage side

A Tap position adjusted

P tap position postprocessed

E Tap position estimated

D Tap position estimated with discrepancy

B Tap position estimated and identified as bad data

X tap position unobservable

## Indicators for Network Membership

-----  
O own

S subjacent own

B boundary

F foreign

R result NR

r to reduce

=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				
(nodes:								Ilim/Vn
St2 Flg	Qloss							
=====								
oh1cb	O	MWVEDENI	110kV	5507_BAR	13.1	4.1	68.7	450
		-0.006						
		MBHN	110kV	SBA1				450
		0.091						
APD								
oh1cb	O	MWVEDENI	110kV	5508_BAR	-1.3	0.4	6.7	450
		-0.001						
		MOK_D	110kV	SBA1				450

UCH - výpadek přípojnice C v OKC

APD			0.045					
-----			-----					
PQnod	O	MBAR	110kv	SBA1	-11.8	-4.5	115.4	-6.06
elSn		NetGr						110.0
1			-----					
Load	F	MBAR	110kv	T101LOAD	-11.8	-4.5	63.4	210
Load	F	MBAR	110kv	T102LOAD	0.0	0.0	0.0	210
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kv	5506_BHN	37.1	8.6	190.4	450
		-0.042						
		MOKC	110kv	SBB1				450
APD		-0.013						
OhlCb	O	MWVEDENI	110kv	5507_BAR	-13.1	-4.0	68.5	450
		-0.006						
		MBAR	110kv	SBA1				450
APD		0.091						
Trafo	O	MBHN	110kv	T101_cmp	-10.5	-1.9	53.2	210
13		-0.050						
		MBHN	22kv	SBA				210
APD		-0.652						
Trafo	O	MBHN	110kv	T102_cmp	-13.5	-2.7	69.0	210
14		-0.034						
		MBHN	22kv	SBB				131
APD		-0.621						

PQnod	O	MBHN	110kv	SBA1	-0.0	-0.0	115.5	-6.00
elSn		NetGr						110.0
1			~~~~~					
			~~~~~					
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	O	MBHN	110kv	T101_cmp	10.4	1.2	272.8	1050
13		-0.050						
		MBHN	110kv	SBA1				1050
APD		-0.652						
-----								
PQnod	O	MBHN	22kv	SBA	-10.4	-1.2	22.23	-7.89
elSn		NetGr						22.00
1			-----					
Load	O	MBHN	22kv	SBALOAD	-10.4	-1.2	272.8	1706
~~~~~								

UCH - Výpadek přípojnice C v OKC

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 14	0	MBHN -0.034	110kV	T102_cmp	13.5	2.1	362.5	1050
APD		MBHN -0.621	110kV	SBA1				656
PQnod elSn	0	MBHN NetGr	22kV	SBB	-13.5	-2.1	21.76	-8.54
1								22.00
Load	0	MBHN	22kV	SBBLOAD	-13.5	-2.1	362.5	1706

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.005	110kV	_559_CHR	4.1	-0.1	20.5	450
APD		MOKC 0.962	110kV	SBB1				450
PQnod elSn	F	MCHR NetGr	110kV	SBA1	-4.1	0.1	115.6	-6.05
1								110.0
Load	F	MCHR	110kV	T102LOAD	-4.1	0.1	20.5	84

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI 0.000	110kV	5518_FA_	0.0	0.3	1.4	450
APD		MWVEDENI 0.274	110kV	5518_FA_				450
OhlCb	0	MWVEDENI -0.001	110kV	5519_FA_	3.4	-0.9	17.4	450
APD		MOKC 0.271	110kV	SBB1				450
PQnod	0	MFA	110kV	SBA1	-3.4	0.6	115.7	-5.91

UCH - Výpadek přípojnice C v OKC

110.0

eISn NetGr

1

Load	F	MFA	110kV	T102LOAD	-3.4	0.6	17.1	131
------	---	-----	-------	----------	------	-----	------	-----

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
---------------------------------------	-----------	---------------------------	----	--------------------	-------	-------	---------	-------------------

Trafo	0	MHO -0.098	110kV	T8_cmp	-34.3	-7.2	1758.6	3637
APD		MHO -2.068	110kV	SBA1				3637

PVnod	0	MHO	10kV	SBA3	34.3	7.2	11.51	2.62
eISn		NetGr						10.00

1

Gen	F	MHO	10kV	GEN3cmp	34.3	7.2	1758.6	3437
-----	---	-----	------	---------	------	-----	--------	------

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
---------------------------------------	-----------	---------------------------	----	--------------------	-------	-------	---------	-------------------

Trafo	0	MHO -0.083	110kV	T10_cmp	-26.6	-6.6	1374.0	3637
APD		MHO -1.405	110kV	SBA1				3637

PVnod	0	MHO	10kV	SBA4	26.6	6.6	11.51	2.00
eISn		NetGr						10.00

1

Gen	F	MHO	10kV	GEN.4cmp	26.6	6.6	1374.0	3437
-----	---	-----	------	----------	------	-----	--------	------

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
---------------------------------------	-----------	---------------------------	----	--------------------	-------	-------	---------	-------------------

oh1Cb	0	MWVEDENI -0.151	110kV	_533_HO_	-29.9	-5.6	147.2	450
APD		MTD 0.217	110kV	SB.A				450

UCH - výpadek přípojnice C v OKC								
ohlCb	O	MWVEDENI	110kV	_534_HO_	-6.4	0.7	31.2	450
		-0.007						
		MWVEDSBV	110kV	_534_A				450
APD		0.655						
ohlCb	O	MWVEDENI	110kV	_535_HO_	-6.6	1.2	32.5	450
		-0.033						
APD		MSO	110kV	SBA1				450
		2.390						
ohlCb	O	MWVEDENI	110kV	_536_HO_	-6.8	0.9	33.1	450
		-0.031						
APD		MSO	110kV	SBA1				450
		2.402						
Trafo	O	MHO	110kV	T10_cmp	26.5	5.2	130.5	331
		-0.083						
		MHO	10kV	SBA4				331
APD		-1.405						
Trafo	O	MHO	110kV	T13_cmp	-5.9	-1.7	29.7	210
12		-0.046						
		MHO	22kV	SBA				210
APD		-0.251						
Trafo	O	MHO	110kV	T8_cmp	34.2	5.1	167.3	331
		-0.098						
		MHO	10kV	SBA3				331
APD		-2.068						

PQnod	O	MHO	110kV	SBA1	-5.0	-5.9	119.4	-0.12
elSn		NetGr						
1								110.0

Load	O	MHO	110kV	T12LOAD	-5.0	-5.9	37.6	84
------	---	-----	-------	---------	------	------	------	----

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlCb	O	MWVEDENI	110kV	_541_HO_	1.0	-2.8	14.7	450
		-0.003						
		MKY	110kV	SBA1				450
APD		0.893						
ohlCb	O	MWVEDENI	110kV	_542_HO_	1.9	5.5	28.9	450
		-0.003						
APD		MPNV	110kV	SBA1				450
		0.348						
ohlCb	O	MWVEDENI	110kV	_544_HO_	-2.9	-2.7	19.6	450
		-0.005						
APD		MVLM	110kV	SBA7				450
		0.910						

PQnod	O	MHO	110kV	SBB1	-0.0	-0.0	116.3	-6.59
elSn		NetGr						
1								110.0

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss						

UCH - výpadek přípojnice C v OKC								
(nodes: St2 Flg Qloss	Busbar)						Ilim/Vn	
=====								
Trafo 12	0	MHO -0.046	110kv	T13_cmp	5.9	1.4	148.6	1050
APD		MHO -0.251	110kv	SBA1				1050

PQnode1Sn	0	MHO NetGr	22kv	SBA	-5.9	-1.4	23.45	-1.00
1								22.00

Load	0	MHO	22kv	SBALOAD	-5.9	-1.4	148.6	3149
~~~~~								
=====								
Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi								
(nodes: St1 Flg Ploss	Busbar)						Ilim/Vn	
St2 Flg Qloss								
=====								
ohlCb	0	MWVEDENI -0.033	110kv	5594_KNC	9.2	2.4	52.3	450
		MPRT 0.765	110kv	SBA				450
APD Trafo 12	0	MKNC -0.030	110kv	T102_cmp	-9.2	-2.4	52.3	131
APD		MKNC -0.538	22kv	SBA1				131
-----								
PQnode1Sn	0	MKNC NetGr	110kv	SBA1	-0.0	-0.0	105.1	-15.42
1								110.0
~~~~~								
=====								
Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi								
(nodes: St1 Flg Ploss	Busbar)						Ilim/Vn	
St2 Flg Qloss								
=====								
Trafo 12	0	MKNC -0.030	110kv	T102_cmp	9.2	1.9	265.0	656
APD		MKNC -0.538	110kv	SBA1				656

PQnode1Sn	0	MKNC NetGr	22kv	SBA1	-9.2	-1.9	20.43	-18.51
1								22.00

Load	0	MKNC	22kv	SBA1LOAD	-9.6	-0.9	272.5	1312
Load	0	MKNC	22kv	SBA2LOAD	0.4	-1.0	29.2	1312
~~~~~								

UCH - Výpadek přípojnice C v OKC

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	O	MWVEDENI -0.308	110kV	_546_KUN	32.7	-3.1	160.2	450
APD		MOKC 0.258	110kV	SBA1				450
oh1Cb	O	MWVEDENI -0.033	110kV	5540_KUN	-21.0	5.8	106.4	450
APD		MNA_D 0.185	110kV	SBA1				450
Trafo 13	F	MKUN -0.056	110kV	T101_cmp	-11.7	-2.7	58.4	210
APD		MKUN -0.518	22kV	SBB1				131
PQnod elSn	O	MKUN NetGr	110kV	SBA1	-0.0	0.0	118.2	-5.32
1								110.0
~~~~~								
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 13	F	MKUN -0.056	110kV	T101_cmp	11.6	2.2	300.4	1050
APD		MKUN -0.518	110kV	SBA1				656
PQnod elSn	O	MKUN NetGr	22kV	SBB1	-11.6	-2.2	22.69	-7.21
1								22.00
Load	O	MKUN	22kV	SBB1LOAD	-5.8	-1.1	150.2	1706
Load	O	MKUN	22kV	SBB2LOAD	-5.8	-1.1	150.2	1706
~~~~~								
Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	O	MWVEDENI -0.003	110kV	_541_HO_	-1.0	3.7	19.0	450
APD		MHO 0.893	110kV	SBB1				450
oh1Cb	O	MWVEDENI -0.716	110kV	_545_KY_	37.6	4.5	188.2	450

UCH - výpadek přípojnice C v OKC								
APD		MOKC	110kV	SBA1				450
Trafo	0	-0.150						
13		MKY	110kV	T101_cmp	-23.8	-5.7	121.5	210
		-0.121						
APD		MKY	22kV	SBA1				210
Trafo	0	-1.922						
13		MKY	110kV	T102_cmp	-12.8	-2.5	65.0	210
		-0.033						
APD		MKY	22kV	SBB1				210
		-0.549						

PQnod	0	MKY	110kV	SBA1	-0.0	0.0	116.1	-6.50
	elSn	NetGr						110.0
	1							

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlcb	0	MKY	22kV	V352	0.5	-0.2	14.5	500
		-0.000						
APD		MKY	22kV	SBA1				500
ohlcb	0	0.002						
		MKY	22kV	V353	0.5	-0.2	14.5	500
		-0.000						
APD		MKY	22kV	SBA1				500
Trafo	0	0.002						
		MKY	22kV	BAT01cmp	-1.0	0.4	29.1	241
		-0.026						
APD		MKY	6kV	SBV.T01				241
		-0.052						
PQnod	0	MKY	22kV	SBA	-0.0	-0.0	22.08	-10.55
	elSn	NetGr						22.00
	1							

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlcb	0	MKY	22kV	V352	-0.5	0.2	14.6	500
		-0.000						
APD		MKY	22kV	SBA				500
ohlcb	0	0.002						
		MKY	22kV	V353	-0.5	0.2	14.6	500
		-0.000						
APD		MKY	22kV	SBA				500
Trafo	0	0.002						
13		MKY	110kV	T101_cmp	23.6	3.8	625.7	1050
		-0.121						
APD		MKY	110kV	SBA1				1050
		-1.922						

UCH - Výpadek přípojnice C v OKC

PQnod	O	MKY	22kV	SBA1	-22.6	-4.2	22.08	-10.50
elSn		NetGr						22.00
1								

Load	O	MKY	22kV	SBA1LOAD	-11.3	-2.1	300.5	2099
Load	O	MKY	22kV	SBA2LOAD	-11.3	-2.1	300.5	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes: St2 Flg		Qloss						
oh1Cb	O	MKY	22kV	V19	0.0	0.0	0.0	500
		-0.000						
APD		MKY	22kV	SBB1				500
		0.051						

PQnod	O	MKY	22kV	SBB	-0.0	-0.0	22.30	-8.77
elSn		NetGr						22.00
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes: St2 Flg		Qloss						
oh1Cb	O	MKY	22kV	V19	-0.0	0.1	1.3	500
		-0.000						
APD		MKY	22kV	SBB				500
		0.051						
Trafo	O	MKY	110kV	T102_cmp	12.8	1.9	335.3	1050
13		-0.033						
APD		MKY	110kV	SBA1				1050
		-0.549						

PQnod	O	MKY	22kV	SBB1	-12.8	-2.0	22.30	-8.77
elSn		NetGr						22.00
1								

Load	O	MKY	22kV	SBB1LOAD	-6.4	-1.0	167.7	2099
Load	O	MKY	22kV	SBB2LOAD	-6.4	-1.0	167.7	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes: St2 Flg		Qloss						

UCH - Výpadek přípojnice C v OKC

Trafo	0	MKY	6kV	B1T01cmp	-0.0	0.0	0.0	999
		-0.025	6kV	SBV.T01				999
APD		-0.049						

PQnod	0	MKY	6kV	B1T01cmp	0.0	-0.0	6.35	-11.20
	elSn	NetGr						6.30
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

Trafo	0	MKY	22kV	BAT01cmp	1.0	-0.5	100.9	843
		-0.026	22kV	SBA				843
APD		-0.052						
Trafo	0	MKY	6kV	B1T01cmp	-0.0	-0.0	5.0	999
		-0.025	6kV	B1T01cmp				999
APD		-0.049						
Trafo	0	MKY	6kV	B3T01cmp	-1.0	0.5	100.8	1842
		-0.026	6kV	SBV.TG3				1842
APD		-0.111						

PQnod	0	MKY	6kV	SBV.T01	0.0	0.0	6.35	-11.19
	elSn	NetGr						6.30
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

Trafo	0	MKY	6kV	B3T01cmp	1.0	-0.6	103.4	1842
		-0.026	6kV	SBV.T01				1842
APD		-0.111						

PVnod	0	MKY	6kV	SBV.TG3	-1.0	0.6	6.38	-11.70
	elSn	NetGr						6.30
1								

Gen	F	MKY	6kV	GEN.3cmp	-1.0	0.6	103.4	999
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Type	Nm	Station	VL	UCH - Výpadek přípojnice C v OKC	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Circuit				
(nodes: St2 Flg Qloss				Busbar)				Ilim/Vn
ohlCb	0	MWVEDENI -0.001	110kV	5573_MAD	1.9	1.9	13.4	450
		MSVI	110kV	SBV.T114				450
APD ohlCb	0	0.031 MWVEDENI -0.124	110kV	5501_MAD	34.6	3.3	174.1	450
		MOKC	110kV	SBB1				450
APD ohlCb	0	0.010 MWVEDENI -0.012	110kV	_567_MAD	-5.2	-0.2	26.1	450
		MVST	110kV	SBB				450
APD ohlCb	0	1.122 MWVEDENI -0.005	110kV	5509_MAD	-7.6	-0.8	38.1	450
		MMLE	110kV	SBA1				450
APD BBC	0	0.215 MMAD 0.000	110kV	SP1cmp	-23.7	-4.1	120.7	9999
		MMAD	110kV	SBB				9999
APD		0.000						
PQnod	0	MMAD	110kV	SBA	0.0	0.0	115.2	-6.28
elSn		NetGr						110.0

1

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				
(nodes: St2 Flg Qloss								Ilim/Vn
ohlCb	0	MWVEDENI 0.001	110kV	5572_MAD	3.0	3.0	21.0	450
		MSVI	110kV	SBV.T115				450
APD ohlCb	0	0.039 MWVEDENI -0.075	110kV	5574_MAD	-19.2	-4.6	98.9	450
		MSLU	110kV	SBA1				450
APD ohlCb	0	0.366 MWVEDENI -0.124	110kV	5502_MAD	34.6	3.3	174.1	450
		MOKC	110kV	SBB1				450
APD ohlCb	0	0.010 MWVEDENI -0.000	110kV	5503_MAD	-0.0	0.3	1.4	450
		MWVEDENI	110kV	5503_MAD				450
APD BBC	0	0.270 MMAD 0.000	110kV	SP1cmp	23.7	4.1	120.7	9999
		MMAD	110kV	SBA				9999
APD Trafo 13	0	0.000 MMAD -0.083	110kV	T101_cmp	-20.4	-3.1	103.3	131
		MMAD	22kV	SBA				210
APD Trafo 13	0	-2.147 MMAD -0.101	110kV	T102_cmp	-21.7	-3.0	109.8	210

UCH - výpadek přípojnice C v OKC								
APD		MMAD	22kV	SBB3				210
-----								
E	PQnod	O	MMAD	110kV	SBB	-0.0	0.0	115.2
	elSn		NetGr					-6.28
								110.0
	1							
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	O	MMAD	110kV	T101_cmp	20.3	1.0	533.3	656
13		-0.083						
		MMAD	110kV	SBB				1050
APD		-2.147						

PQnod	O	MMAD	22kV	SBA	-20.3	-1.0	22.00	-12.25
elSn		NetGr						22.00
	1							

Load	O	MMAD	22kV	SBALOAD	-20.3	-1.0	533.4	2756
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	O	MMAD	110kV	T102_cmp	21.6	1.2	565.3	1050
13		-0.101						
		MMAD	110kV	SBB				1050
APD		-1.807						
-----								
PQnod	O	MMAD	22kV	SBB3	-21.6	-1.2	22.09	-10.23
elSn		NetGr						22.00
	1							
-----								
Load	O	MMAD	22kV	SBB1LOAD	-10.8	-0.6	282.7	2756
Load	O	MMAD	22kV	SBB2LOAD	-10.8	-0.6	282.7	2756
~~~~~								
=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
ohlcb	O	MWVEDENI	110kV	5504_MLE	0.0	0.1	0.3	450

UCH - Výpadek přípojnice C v OKC

APD	OhlCb	O	0.000 MWVEDENI	110kV	5504_MLE				450
			0.066 MWVEDENI	110kV	5509_MAD	7.5	1.0	38.2	450
APD			-0.005 MMAD	110kV	SBA				450
			0.215						

PQnod	O	MMLE	110kV	SBA1	-7.5	-1.1	115.1	-6.36
elSn		NetGr						110.0
1								

Load	F	MMLE	110kV	T101LOAD	-7.5	-1.1	38.2	131
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
OhlCb	O	MWVEDENI	110kV	_547_NAD	-20.2	-6.4	103.3	450
		-0.172						
		MPNV	110kV	SBA1				450
APD		0.911						
OhlCb	O	MWVEDENI	110kV	5540_KUN	21.0	-5.6	106.0	450
		-0.033						
		MKUN	110kV	SBA1				450
APD		0.185						

PQnod	O	MNA_D	110kV	SBA1	-0.8	12.0	118.2	-5.59
elSn		NetGr						110.0
1								

Load	F	MNA_D	110kV	T102LOAD	-0.9	6.8	33.5	52
Load	F	MNA_D	110kV	T1LOAD	0.1	-6.8	33.2	52

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
OhlCb	O	MWVEDENI	110kV	5575_NZD	79.3	17.0	429.7	450
		-2.821						
		MOKC	110kV	SBB1				450
APD		-7.734						
OhlCb	O	MWVEDENI	110kV	5577_NZD	-77.9	-15.7	421.3	450
		-1.558						
		MPRT	110kV	SBA				450
APD		-4.318						

PQnod	O	MNZ_D	110kV	SBA1	-1.4	-1.3	108.9	-11.49
elSn		NetGr						110.0

UCH - Výpadek přípojnice C v OKC

1

Load	F	MNZ_D	110kV	T101LOAD	-1.2	-0.6	6.9	52
Load	F	MNZ_D	110kV	T111LOAD	-0.2	-0.7	4.0	52

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	F	MOKC	10kV	T401_cmp	8.9	-8.3	652.5	5774
		-0.001	110kV	SBV.T401				5774
APD		MOKC						
		-0.384						
PQnod	O	MOKC	10kV	SBT401	-8.9	8.3	10.78	-2.03
eISn		NetGr						10.00

1

Load	O	MOKC	10kV	SBT401LO	-8.9	8.3	652.5	5774
------	---	------	------	----------	------	-----	-------	------

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	F	MOKC	10kV	T402_cmp	-2.6	0.9	154.7	5774
		-0.000	110kV	SBV.T402				5774
APD		MOKC						
		-0.022						
PQnod	O	MOKC	10kV	SBT402	2.6	-0.9	10.23	-10.94
eISn		NetGr						10.00

1

Load	O	MOKC	10kV	SBT402LO	2.6	-0.9	154.7	5774
------	---	------	------	----------	-----	------	-------	------

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	F	MOKC	10kV	T403_cmp	0.0	0.0	0.0	5774
		-0.000	110kV	SBV.T403				5774
APD		MOKC						
		0.000						

UCH - Výpadek přípojnice C v OKC

PQnod	F	MOKC	10kv	T403_cmp	-0.0	-0.0	9.87	-16.18
elSn	NetGr							10.00

1

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| Type    | Nm      | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|---------|----------|-------|----------|-------|-------|---------|---------|
| (nodes: | St1 Flg | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| St2 Flg | Qloss   |          |       |          |       |       |         |         |
| ohlCb   | O       | MWVEDENI | 110kv | 5570_OKC | -48.9 | -9.8  | 242.1   | 450     |
|         |         | -0.638   |       |          |       |       |         |         |
|         |         | MUBR     | 110kv | SBB      |       |       |         | 450     |
| APD     |         | -0.828   |       |          |       |       |         |         |
| ohlCb   | O       | MWVEDENI | 110kv | 5571_OKC | -48.9 | -9.8  | 242.1   | 450     |
|         |         | -0.638   |       |          |       |       |         |         |
|         |         | MUBR     | 110kv | SBB      |       |       |         | 450     |
| APD     |         | -0.828   |       |          |       |       |         |         |
| ohlCb   | O       | MWVEDENI | 110kv | _545_KY_ | -38.3 | -4.7  | 187.1   | 450     |
|         |         | -0.716   |       |          |       |       |         |         |
|         |         | MKY      | 110kv | SBA1     |       |       |         | 450     |
| APD     |         | -0.150   |       |          |       |       |         |         |
| ohlCb   | O       | MWVEDENI | 110kv | _546_KUN | -33.0 | 3.3   | 160.8   | 450     |
|         |         | -0.308   |       |          |       |       |         |         |
|         |         | MKUN     | 110kv | SBA1     |       |       |         | 450     |
| APD     |         | 0.258    |       |          |       |       |         |         |
| Trafo   | F       | MOKC     | 110kv | T402_cmp | 169.1 | 21.0  | 826.8   | 1837    |
|         |         | -0.052   |       |          |       |       |         |         |
| APD     |         | 23.014   | 110kv | SBV.T402 |       |       |         | 1837    |

| PQnod | O     | MOKC | 110kv | SBA1 | -0.0 | -0.0 | 119.0 | -3.63 |
|-------|-------|------|-------|------|------|------|-------|-------|
| elSn  | NetGr |      |       |      |      |      |       | 110.0 |

1

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
(nodes:	St1 Flg	Ploss		Busbar)				Ilim/Vn
St2 Flg	Qloss							
ohlCb	O	MWVEDENI	110kv	5575_NZD	-82.1	-24.7	427.8	450
		-2.821						
		MNZ_D	110kv	SBA1				450
APD		-7.734						
ohlCb	O	MWVEDENI	110kv	5501_MAD	-34.7	-3.3	174.0	450
		-0.124						
		MMAD	110kv	SBA				450
APD		0.010						
ohlCb	O	MWVEDENI	110kv	5502_MAD	-34.7	-3.3	174.0	450
		-0.124						
		MMAD	110kv	SBB				450
APD		0.010						
ohlCb	O	MWVEDENI	110kv	5506_BHN	-37.2	-8.6	190.3	450
		-0.042						
		MBHN	110kv	SBA1				450
APD		-0.013						

UCH - výpadek přípojnice C v OKC								
ohlCb	O	MWVEDENI	110kV	_559_CHR	-4.1	1.1	21.2	450
		-0.005						
		MCHR	110kV	SBA1				450
APD		0.962						
ohlCb	O	MWVEDENI	110kV	_573_OKC	-15.8	-2.0	79.4	450
		-0.079						
		MRYC	110kV	SBA1				450
APD		0.957						
ohlCb	O	MWVEDENI	110kV	5517_OKC	-39.1	-7.5	198.7	420
		-0.455						
		MUHD	110kV	SBA1				420
APD		-0.214						
ohlCb	O	MWVEDENI	110kV	5519_FA_	-3.4	1.2	17.8	450
		-0.001						
		MFA	110kV	SBA1				450
APD		0.271						
Trafo	F	MOKC	110kV	T403_cmp	251.0	47.3	1274.3	1837
		-0.118						
		MOKC	110kV	SBV.T403				1837
APD		45.767						

PQnod	O	MOKC	110kV	SBB1	0.1	-0.0	115.7	-5.86
eISn		NetGr						
								110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	F	MOKC	400KV	T401_cmp	8.9	-7.9	56.6	1837
7		-0.098						
		MOKC	400KV	SBA				1837
APD		-0.558						
Trafo	F	MOKC	10kV	T401_cmp	-8.9	7.9	56.6	525
		-0.001						
		MOKC	10kV	SBT401				525
APD		-0.384						
Trafo	F	MOKC	110kV	T401_cmp	-0.0	-0.0	0.0	1837
		0.000						
		MOKC	110kV	T401_cmp				1837
APD		0.000						

PQnod	O	MOKC	110kV	SBV.T401	0.0	0.0	121.6	-0.68
eISn		NetGr						
								110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	F	MOKC	400KV	T402_cmp	166.6	-1.1	814.0	1837
6		-0.174						
		MOKC	400KV	SBB				1312

UCH - Výpadek přípojnice C v OKC								
APD	Trafo	F	-33.517 MOKC -0.000	10kV	T402_cmp	2.6	-0.9	525
			MOKC	10kV	SBT402			525
APD	Trafo	F	-0.022 MOKC -0.052	110kV	T402_cmp	-169.2	2.0	1837
			MOKC	110kV	SBA1			1837
APD			23.014					

	PQnod	O	MOKC	110kV	SBV.T402	0.0	-0.0	118.1	-11.39
		elSn	NetGr						110.0
	1								

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							
Trafo	F	MOKC	400kV	T403_cmp	251.1	1.5	1274.3	1837
5		-0.276						
		MOKC	400kV	SBA				1312
APD	F	-72.477						
Trafo	F	MOKC	10kV	T403_cmp	-0.0	-0.0	0.0	525
		-0.000						
		MOKC	10kV	T403_cmp				525
APD	F	0.000						
Trafo	F	MOKC	110kV	T403_cmp	-251.1	-1.5	1274.3	1837
		-0.118						
		MOKC	110kV	SBB1				1837
APD		45.767						

	PQnod	O	MOKC	110kV	SBV.T403	-0.0	0.0	113.8	-16.18
		elSn	NetGr						110.0
	1								

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							
Trafo	F	MOKC	110kV	T401_cmp	0.0	0.0	0.0	1837
		0.000						
		MOKC	110kV	SBV.T401				1837
APD		0.000						

	PQnod	F	MOKC	110kV	T401_cmp	0.0	0.0	121.6	-0.68
		elSn	NetGr						110.0
	1								

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UCH - Výpadek přípojnice C v OKC

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1cb	F	MWVEDENI -0.023 MSO 40.380	400kV	417_OKC	12.9	-21.5	34.8	1200
APD			400KV	SBV.KP2				1200
BBC	F	MOKC 0.000	400KV	KP1cmp	247.4	88.1	364.6	9999
DEF		MOKC 0.000	400KV	SBB				9999
Trafo 7	F	MOKC -0.098	400KV	T401_cmp	-9.0	7.4	16.1	505
		MOKC -0.558	110kV	SBV.T401				505
APD			400KV	T403_cmp	-251.4	-74.0	363.8	505
Trafo 5	F	MOKC -0.276	110kV	SBV.T403				361
APD		MOKC -72.477						
PQnod elSn	F	MOKC NetGr	400KV	SBA	0.0	0.0	415.9	-0.13
1								400.0

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
BBC	F	MOKC 0.000	400KV	KP1cmp	-247.4	-88.1	364.6	9999
DEF		MOKC 0.000	400KV	SBA				9999
Trafo 6	F	MOKC -0.174	400KV	T402_cmp	-166.7	-32.4	235.8	505
APD		MOKC -33.517	110kV	SBV.T402				361
E PVnod elSn	F	MOKC NetGr	400KV	SBB	414.2	120.5	415.9	-0.13
1								400.0
Inj	F	MOKC	400KV	INJ.V418	414.3	120.5	598.9	28868

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1cb	O	MWVEDENI	110kV	5505_OKC	-0.0	0.1	0.6	450

UCH - Výpadek přípojnice C v OKC

			-0.000					
APD			MWVEDENI	110kV	5505_OKC			450
			0.116					
OhlCb	0		MWVEDENI	110kV	5508_BAR	1.3	-0.4	6.6
			-0.001					450
			MBAR	110kV	SBA1			450
APD			0.045					

	PQnod	0	MOK_D	110kV	SBA1	-1.3	0.3	115.4	-6.06
	elSn		NetGr						
	1								110.0

	Load	F	MOK_D	110kV	T101LOAD	-1.3	0.3	6.5	52
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
OhlCb	0	MWVEDENI	110kV	_542_HO_	-1.9	-5.2	27.3	450
		-0.003						
		MHO	110kV	SBB1				450
APD		0.348						
OhlCb	0	MWVEDENI	110kV	_547_NAD	20.0	7.3	105.5	450
		-0.172						
		MNA_D	110kV	SBA1				450
APD		0.911						
Trafo	0	MPNV	110kV	T101_cmp	-18.1	-2.1	90.2	226
13		-0.083						
		MPNV	22kV	SBA1				226
APD		-1.128						

	PQnod	0	MPNV	110kV	SBA1	0.0	-0.0	116.5	-6.59
	elSn		NetGr						
	1								110.0

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MPNV	110kV	T101_cmp	18.0	1.0	464.7	1128
13		-0.083						
		MPNV	110kV	SBA1				1128
APD		-1.128						

	PQnod	0	MPNV	22kV	SBA1	-18.0	-1.0	22.40	-9.50
	elSn		NetGr						
	1								22.00

	Load	0	MPNV	22kV	SBA1LOAD	-9.0	-0.5	232.4	2099
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UCH - výpadek přípojnice C v OKC
 Load O MPNV 22kV SBA2LOAD -9.0 -0.5 232.4 2099
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=====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 (nodes: St1 Flg Ploss Busbar) Ilim/Vn  
 St2 Flg Qloss  
 =====

|     |             |   |                              |       |          |       |      |       |     |
|-----|-------------|---|------------------------------|-------|----------|-------|------|-------|-----|
|     | OhlCb       | 0 | MWVEDENI<br>-1.558           | 110kV | 5577_NZD | 76.4  | 11.4 | 422.0 | 450 |
|     |             |   | MNZ_D                        | 110kV | SBA1     |       |      |       | 450 |
| APD | OhlCb       | 0 | -4.318<br>MWVEDENI<br>-0.067 | 110kV | 5578_PRT | -12.5 | -0.1 | 68.4  | 450 |
|     |             |   | MZDO                         | 110kV | SBA1     |       |      |       | 450 |
| APD | OhlCb       | 0 | 0.975<br>MWVEDENI<br>-0.033  | 110kV | 5594_KNC | -9.3  | -1.6 | 51.4  | 450 |
|     |             |   | MKNC                         | 110kV | SBA1     |       |      |       | 450 |
| APD | OhlCb       | 0 | 0.765<br>MWVEDENI<br>-0.000  | 110kV | _556_PRT | -0.0  | 1.1  | 6.0   | 450 |
|     |             |   | MWVEDENI                     | 110kV | _556_PRT |       |      |       | 450 |
| APD | Trafo<br>12 | 0 | 1.100<br>MPRT<br>-0.100      | 110kV | T103_cmp | -31.5 | -6.1 | 175.2 | 210 |
|     |             |   | MPRT                         | 22kV  | SBB1     |       |      |       | 210 |
| APD | Trafo<br>12 | 0 | -3.681<br>MPRT<br>-0.119     | 110kV | T101_cmp | -23.1 | -4.7 | 128.9 | 210 |
|     |             |   | MPRT                         | 22kV  | SBA1     |       |      |       | 210 |
| APD |             |   | -2.097                       |       |          |       |      |       |     |

-----  
 PQnod O MPRT 110kV SBA -0.0 0.0 105.6 -14.95  
 elSn NetGr  
 1 110.0  
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=====
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi
 (nodes: St1 Flg Ploss Busbar) Ilim/Vn
 St2 Flg Qloss
 =====

	Trafo 12	0	MPRT -0.119	110kV	T101_cmp	23.0	2.6	651.7	1050
			MPRT	110kV	SBA				1050
APD			-2.097						

 PQnod O MPRT 22kV SBA1 -23.0 -2.6 20.50 -19.54
 elSn NetGr
 1 22.00

Load	O	MPRT	22kV	SBA1LOAD	-11.5	-1.3	326.0	2756
Load	O	MPRT	22kV	SBA2LOAD	-11.5	-1.3	326.0	2756

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UCH - Výpadek přípojnice C v OKC

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss        | VL             | Circuit<br>Busbar)   | Pcalc          | Qcalc        | I/Vcalc        | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|----------------------------------|----------------|----------------------|----------------|--------------|----------------|-------------------|
| Trafo<br>12                   | 0         | MPRT<br>-0.100<br>MPRT<br>-3.681 | 110kV<br>110kV | T103_cmp<br>SBA      | 31.4           | 2.4          | 887.8          | 1050<br>1050      |
| APD                           |           |                                  |                |                      |                |              |                |                   |
| PQnod<br>elSn                 | 0         | MPRT<br>NetGr                    | 22kV           | SBB1                 | -31.4          | -2.4         | 20.47          | -21.43<br>22.00   |
| 1                             |           |                                  |                |                      |                |              |                |                   |
| Load<br>Load                  | 0<br>0    | MPRT<br>MPRT                     | 22kV<br>22kV   | SBB1LOAD<br>SBB2LOAD | -15.7<br>-15.7 | -1.2<br>-1.2 | 444.1<br>444.1 | 2756<br>2756      |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss           | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0         | MWVEDENI<br>-0.079<br>MOKC<br>0.957 | 110kV<br>110kV | _573_OKC<br>SBB1   | 15.7  | 3.0   | 80.3    | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| Trafo<br>13                   | 0         | MRYC<br>-0.104<br>MRYC<br>-1.385    | 110kV<br>22kV  | T101_cmp<br>SB.A1  | -15.7 | -3.0  | 80.3    | 131<br>131        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0         | MRYC<br>NetGr                       | 110kV          | SBA1               | -0.0  | 0.0   | 114.9   | -6.64<br>110.0    |
| 1                             |           |                                     |                |                    |       |       |         |                   |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss        | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|----------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| Trafo<br>13                   | 0         | MRYC<br>-0.104<br>MRYC<br>-1.385 | 110kV<br>110kV | T101_cmp<br>SBA1   | 15.6  | 1.6   | 413.6   | 656<br>656        |
| APD                           |           |                                  |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0         | MRYC<br>NetGr                    | 22kV           | SB.A1              | -15.6 | -1.6  | 21.89   | -11.08<br>22.00   |
| 1                             |           |                                  |                |                    |       |       |         |                   |

UCH - Výpadek přípojnice C v OKC

|      |   |      |      |          |      |      |       |      |
|------|---|------|------|----------|------|------|-------|------|
| Load | 0 | MRYC | 22kV | SBA1LOAD | -7.8 | -0.8 | 206.8 | 1312 |
| Load | 0 | MRYC | 22kV | SBA2LOAD | -7.8 | -0.8 | 206.8 | 1312 |

| Type    | Nm   | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|------|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |      | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |      |          |       |          |       |       |         |         |
| St2 Flg |      | Qloss    |       |          |       |       |         |         |
| oh1Cb   | 0    | MWVEDENI | 110kV | 5510_SLM | 29.5  | 9.4   | 156.2   | 350     |
|         |      | -0.447   |       |          |       |       |         |         |
|         |      | MUBR     | 110kV | SBB      |       |       |         | 350     |
|         |      | 0.165    |       |          |       |       |         |         |
| APD     |      | MSLM     | 110kV | T101_cmp | -29.5 | -9.4  | 156.2   | 210     |
|         |      | -0.080   |       |          |       |       |         |         |
| Trafo   | 0    | MSLM     | 22kV  | SBA1     |       |       |         | 210     |
| 11      |      | -2.856   |       |          |       |       |         |         |
| APD     |      |          |       |          |       |       |         |         |
| PQnod   | 0    | MSLM     | 110kV | SBA1     | -0.0  | 0.0   | 114.3   | -6.56   |
|         | elSn | NetGr    |       |          |       |       |         |         |
|         |      |          |       |          |       |       |         | 110.0   |
|         | 1    |          |       |          |       |       |         |         |

| Type    | Nm   | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|------|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |      | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |      |         |       |          |       |       |         |         |
| St2 Flg |      | Qloss   |       |          |       |       |         |         |
| Trafo   | 0    | MSLM    | 110kV | T101_cmp | 29.4  | 6.5   | 776.3   | 1050    |
| 11      |      | -0.080  |       |          |       |       |         |         |
|         |      | MSLM    | 110kV | SBA1     |       |       |         | 1050    |
|         |      | -2.856  |       |          |       |       |         |         |
| APD     |      |         |       |          |       |       |         |         |
| PQnod   | 0    | MSLM    | 22kV  | SBA1     | -29.4 | -6.5  | 22.39   | -11.67  |
|         | elSn | NetGr   |       |          |       |       |         |         |
|         |      |         |       |          |       |       |         | 22.00   |
|         | 1    |         |       |          |       |       |         |         |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MSLM | 22kV | SBA1LOAD | -29.4 | -6.5 | 776.3 | 1706 |
|------|---|------|------|----------|-------|------|-------|------|

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| oh1Cb   | 0  | MWVEDENI | 110kV | 5574_MAD | 19.1  | 4.9   | 99.6    | 450     |
|         |    | -0.075   |       |          |       |       |         |         |
|         |    | MMAD     | 110kV | SBB      |       |       |         | 450     |
|         |    | 0.366    |       |          |       |       |         |         |
| APD     |    | MWVEDENI | 110kV | _568_VST | 5.2   | 2.1   | 28.3    | 450     |
| oh1cb   | 0  |          |       |          |       |       |         |         |

# UCH - Výpadek přípojnice C v OKC

|       |   |  |        |       |          |       |      |       |
|-------|---|--|--------|-------|----------|-------|------|-------|
|       |   |  | -0.009 |       |          |       |      |       |
|       |   |  | MVST   | 110kV | SBB      |       |      | 450   |
| APD   |   |  | 0.789  |       |          |       |      |       |
| Trafo | 0 |  | MSLU   | 110kV | T101_cmp | -24.3 | -7.1 | 127.7 |
| 12    |   |  | -0.122 |       |          |       |      | 210   |
|       |   |  | MSLU   | 22kV  | SBA1     |       |      | 210   |
| APD   |   |  | -2.093 |       |          |       |      |       |

|       |   |       |       |      |      |     |       |       |
|-------|---|-------|-------|------|------|-----|-------|-------|
| PQnod | 0 | MSLU  | 110kV | SBA1 | -0.0 | 0.0 | 114.6 | -6.71 |
| elSn  |   | NetGr |       |      |      |     |       | 110.0 |
| 1     |   |       |       |      |      |     |       |       |

| Type    | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |       |       |         |         |
| St2 Flg |    | Qloss   |       |          |       |       |         |         |
| Trafo   | 0  | MSLU    | 110kV | T101_cmp | 24.2  | 5.0   | 644.9   | 1050    |
| 12      |    | -0.122  |       |          |       |       |         |         |
|         |    | MSLU    | 110kV | SBA1     |       |       |         | 1050    |
| APD     |    | -2.093  |       |          |       |       |         |         |
| PQnod   | 0  | MSLU    | 22kV  | SBA1     | -24.2 | -5.0  | 22.12   | -10.82  |
| elSn    |    | NetGr   |       |          |       |       |         | 22.00   |
| 1       |    |         |       |          |       |       |         |         |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MSLU | 22kV | SBA1LOAD | -12.1 | -2.5 | 322.5 | 1706 |
| Load | 0 | MSLU | 22kV | SBA2LOAD | -12.1 | -2.5 | 322.5 | 1706 |

| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| ohlcb   | 0  | MWVEDENI | 110kV | 5573_MAD | -1.9  | -1.8  | 13.3    | 450     |
|         |    | -0.001   |       |          |       |       |         |         |
|         |    | MMAD     | 110kV | SBA      |       |       |         | 450     |
| APD     |    | 0.031    |       |          |       |       |         |         |
| Trafo   | F  | MSVI     | 110kV | T114_cmp | 1.9   | 1.8   | 13.2    | 131     |
| 15      |    | -0.036   |       |          |       |       |         |         |
|         |    | MSVI     | 6kV   | SBA      |       |       |         | 131     |
| APD     |    | -0.095   |       |          |       |       |         |         |
| PQnod   | 0  | MSVI     | 110kV | SBV.T114 | 0.0   | 0.0   | 115.2   | -6.28   |
| elSn    |    | NetGr    |       |          |       |       |         | 110.0   |
| 1       |    |          |       |          |       |       |         |         |

| Type | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi |
|------|----|---------|----|---------|-------|-------|---------|--------|
|------|----|---------|----|---------|-------|-------|---------|--------|

UCH - Výpadek přípojnice C v OKC

| St1 Flg         | Ploss | Busbar)  |       | Ilim/Vn  |       |
|-----------------|-------|----------|-------|----------|-------|
| (nodes: St2 Flg | Qloss |          |       |          |       |
| ohlCb           | O     | MWVEDENI | 110kV | 5572_MAD | -3.0  |
|                 |       | 0.001    |       | -2.9     | 20.9  |
| APD             |       | MMAD     | 110kV | SBB      | 450   |
| Trafo           | F     | 0.039    |       |          |       |
| 15              |       | MSVI     | 110kV | T115_cmp | 3.0   |
|                 |       | -0.027   |       | 2.9      | 20.9  |
| APD             |       | MSVI     | 6kV   | SBA      | 210   |
|                 |       | -0.271   |       |          |       |
| PQnod           | O     | MSVI     | 110kV | SBV.T115 | -0.0  |
| elSn            |       | NetGr    |       | 0.0      | 115.2 |
| 1               |       |          |       |          | -6.28 |
|                 |       |          |       |          | 110.0 |

| Type            | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg         |    | Ploss   |       |          |       |       |         |         |
| (nodes: St2 Flg |    | Qloss   |       | Busbar)  |       |       |         | Ilim/Vn |
| Trafo           | F  | MSVI    | 110kv | T114_cmp | -2.0  | -1.9  | 264.9   | 2291    |
| 15              |    | -0.036  |       |          |       |       |         |         |
| APD             |    | MSVI    | 110kv | SBV.T114 |       |       |         | 2291    |
| Trafo           | F  | MSVI    | 110kv | T115_cmp | -3.0  | -3.2  | 425.1   | 3666    |
| 15              |    | -0.027  |       |          |       |       |         |         |
| APD             |    | MSVI    | 110kv | SBV.T115 |       |       |         | 3666    |
|                 |    | -0.271  |       |          |       |       |         |         |
| PVnod           | F  | MSVI    | 6kv   | SBA      | 4.9   | 5.1   | 5.95    | -5.73   |
| elSn            |    | NetGr   |       |          |       |       |         | 6.30    |
| 1               |    |         |       |          |       |       |         |         |
| Load            | F  | MSVI    | 6kv   | SBALOAD  | -17.5 | -5.6  | 1781.5  | 9622    |
| Gen             | F  | MSVI    | 6kv   | GEN31cmp | 18.0  | 5.0   | 1806.0  | 751     |
| Gen             | F  | MSVI    | 6kv   | GEN6cmp  | 4.5   | 5.5   | 687.0   | 751     |

| Type            | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|----|----------|-------|----------|-------|-------|---------|---------|
| (nodes: St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| St2 Flg         |    | Qloss    |       |          |       |       |         |         |
| ohlCb           | O  | MWVEDENI | 110kv | 5570_OKC | 48.3  | 9.0   | 243.1   | 450     |
|                 |    | -0.638   |       |          |       |       |         |         |
| APD             |    | MOKC     | 110kv | SBA1     |       |       |         | 450     |
|                 |    | -0.828   |       |          |       |       |         |         |
| ohlCb           | O  | MWVEDENI | 110kv | 5571_OKC | 48.3  | 9.0   | 243.1   | 450     |
|                 |    | -0.638   |       |          |       |       |         |         |
| APD             |    | MOKC     | 110kv | SBA1     |       |       |         | 450     |
|                 |    | -0.828   |       |          |       |       |         |         |
| ohlCb           | O  | MWVEDENI | 110kv | _543_UBR | -25.9 | 0.7   | 128.2   | 450     |

Stránka 28

# UCH - Výpadek přípojnice C v OKC

|     |       |   |          |       |          |       |      |       |
|-----|-------|---|----------|-------|----------|-------|------|-------|
|     |       |   | -0.137   |       |          |       |      |       |
|     |       |   | MVKA     | 110kV | SBA3     |       |      | 450   |
| APD | OhlCb | 0 | 0.347    |       |          |       |      |       |
|     |       |   | MWVEDENI | 110kV | 5510_SLM | -29.9 | -9.2 | 154.9 |
|     |       |   | -0.447   |       |          |       |      | 350   |
|     |       |   | MSLM     | 110kV | SBA1     |       |      | 350   |
| APD | Trafo | 0 | 0.165    |       |          |       |      |       |
|     | 12    |   | MUBR     | 110kV | T101_cmp | -22.7 | -6.2 | 116.5 |
|     |       |   | -0.113   |       |          |       |      | 210   |
|     |       |   | MUBR     | 22kV  | SBA1     |       |      | 210   |
| APD | Trafo | 0 | -1.772   |       |          |       |      |       |
|     | 13    |   | MUBR     | 110kV | T102_cmp | -18.0 | -3.4 | 90.9  |
|     |       |   | -0.049   |       |          |       |      | 210   |
|     |       |   | MUBR     | 22kV  | SBB1     |       |      | 210   |
| APD |       |   | -0.987   |       |          |       |      |       |

|       |      |       |       |     |     |     |       |       |
|-------|------|-------|-------|-----|-----|-----|-------|-------|
| PQnod | 0    | MUBR  | 110kV | SBB | 0.0 | 0.0 | 116.7 | -5.57 |
|       | elSn | NetGr |       |     |     |     |       | 110.0 |
|       | 1    |       |       |     |     |     |       |       |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MUBR	110kV	T101_cmp	22.6	4.4	588.3	1050
12		-0.113	110kV	SBB				1050
APD		-1.772						
PQnod	0	MUBR	22kV	SBA1	-22.6	-4.4	22.60	-9.31
	elSn	NetGr						22.00
	1							

Load	0	MUBR	22kV	SBA1LOAD	-11.3	-2.2	294.2	2099
Load	0	MUBR	22kV	SBA2LOAD	-11.3	-2.2	294.2	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MUBR	110kV	T102_cmp	18.0	2.4	468.7	1050
13		-0.049	110kV	SBB				1050
APD		-0.987						
PQnod	0	MUBR	22kV	SBB1	-18.0	-2.4	22.37	-8.61
	elSn	NetGr						22.00
	1							

UCH - výpadek přípojnice C v OKC								
Load	O	MUBR	22kV	SBB1LOAD	-9.0	-1.2	234.3	2099
Load	O	MUBR	22kV	SBB2LOAD	-9.0	-1.2	234.3	2099

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
ohlCb	O	MWVEDENI 0.000	110kV	5516_OKC	-0.0	0.7	3.8	420
APD		MWVEDENI 0.744	110kV	5516_OKC				420
ohlCb	O	MWVEDENI -0.455	110kV	5517_OKC	38.7	7.3	199.4	420
APD		MOKC -0.214	110kV	SBB1				420
Trafo 12	O	MUHD -0.259	110kV	T101_cmp	-38.7	-8.1	200.2	210
APD		MUHD -4.856	22kV	SBA				210
PQnod elSn	O	MUHD NetGr	110kV	SBA1	-0.0	0.0	113.9	-7.12
1								110.0

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 12	O	MUHD -0.259	110kV	T101_cmp	38.4	3.2	1013.0	1050
APD		MUHD -4.856	110kV	SBA1				1050
PQnod elSn	O	MUHD NetGr	22kV	SBA	-38.4	-3.2	21.96	-13.87
1								22.00
Load	O	MUHD	22kV	SBALOAD	-38.4	-3.2	1013.1	2099

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
ohlCb	O	MWVEDENI -0.027	110kV	_540_VKA	-13.9	1.8	69.8	450
		MVLM	110kV	SBA7				450

UCH - výpadek přípojnice C v OKC

APD	OhlCb	O	0.392 MWVEDENI -0.137	110kV	_543_UBR	25.8	-0.4	128.2	450
			MUBR	110kV	SBB				450
APD	Trafo	O	0.347 MVKA -0.035	110kV	T103_cmp	-7.0	-1.1	35.4	131
	13		MVKA -0.363	22kV	SBA				131
APD									

PQnod	O	MVKA	110kV	SBA3	-4.8	-0.3	116.1	-6.36
elSn		NetGr						110.0
1								

Load	F	MVKA	110kV	T102LOAD	-4.8	-0.3	23.9	131
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

Trafo	O	MVKA	110kV	T103_cmp	7.0	0.7	181.8	656
13		-0.035	110kV	SBA3				656
APD		-0.363						

PQnod	O	MVKA	22kV	SBA	-7.0	-0.7	22.34	-8.33
elSn		NetGr						22.00
1								

Load	O	MVKA	22kV	SBALOAD	-7.0	-0.7	181.8	1050
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

OhlCb	O	MWVEDENI	110kV	_540_VKA	13.9	-1.4	69.6	450
		-0.027	110kV	SBA3				450
APD	OhlCb	O	0.392 MWVEDENI	_544_HO_	2.9	3.6	23.0	450
			-0.005	SBB1				450
APD	Trafo	O	0.910 MVLM	T103_cmp	-15.1	-2.1	75.9	131
	13		-0.097	SBA1				210
APD			MVLM -1.316					

PQnod	O	MVLM	110kV	SBA7	-1.7	-0.1	116.0	-6.66
elSn		NetGr						

UCH - Výpadek přípojnice C v OKC

110.0

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Load	F	MVLM	110kV	T102LOAD	-1.7	-0.1	8.5	84
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Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 13	0	MVLM -0.097 MVLM -1.316	110kV	T103_cmp	15.0	0.8	390.8	656
APD			110kV	SBA7				1050
PQnod elSn	0	MVLM NetGr	22kV	SBA1	-15.0	-0.8	22.19	-10.90
								22.00

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Load	0	MVLM	22kV	SBA1LOAD	-7.5	-0.4	195.4	1706
Load	0	MVLM	22kV	SBA2LOAD	-7.5	-0.4	195.4	1706

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.012 MMAD 1.122	110kV	_567_MAD	5.2	1.4	27.0	450
APD			110kV	SBA				450
OhlCb	0	MWVEDENI -0.009 MSLU 0.789	110kV	_568_VST	-5.2	-1.4	27.0	450
APD			110kV	SBA1				450
PQnod elSn	F	MVST NetGr	110kV	SBB	-0.0	0.0	114.9	-6.54
								110.0

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Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.000 MMAD	110kV	5503_MAD	-0.0	-0.0	0.0	450
			110kV	SBB				450

UCH - Výpadek přípojnice C v OKC

APD	0.270							
PQnod	0	MWVEDENI	110kV	5503_MAD	0.0	0.0	115.2	-6.29
elSn		NetGr						110.0

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| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |          |       |          |     |      |     |     |
|-------|---|----------|-------|----------|-----|------|-----|-----|
| ohlCb | 0 | MWVEDENI | 110kV | 5504_MLE | 0.0 | -0.0 | 0.0 | 450 |
|       |   | 0.000    |       |          |     |      |     |     |
|       |   | MMLE     | 110kV | SBA1     |     |      |     | 450 |
|       |   | 0.066    |       |          |     |      |     |     |

APD

|       |   |          |       |          |      |     |       |       |
|-------|---|----------|-------|----------|------|-----|-------|-------|
| PQnod | 0 | MWVEDENI | 110kV | 5504_MLE | -0.0 | 0.0 | 115.1 | -6.36 |
| elSn  |   | NetGr    |       |          |      |     |       | 110.0 |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						

ohlCb	0	MWVEDENI	110kV	5505_OKC	0.0	0.0	0.0	450
		-0.000						
		MOK_D	110kV	SBA1				450
		0.116						

APD

PQnod	0	MWVEDENI	110kV	5505_OKC	-0.0	-0.0	115.4	-6.06
elSn		NetGr						110.0

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| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |          |       |          |     |     |     |     |
|-------|---|----------|-------|----------|-----|-----|-----|-----|
| ohlCb | 0 | MWVEDENI | 110kV | 5516_OKC | 0.0 | 0.0 | 0.0 | 420 |
|       |   | 0.000    |       |          |     |     |     |     |
|       |   | MUHD     | 110kV | SBA1     |     |     |     | 420 |
|       |   | 0.744    |       |          |     |     |     |     |

APD

|       |   |          |       |          |      |     |       |       |
|-------|---|----------|-------|----------|------|-----|-------|-------|
| PQnod | 0 | MWVEDENI | 110kV | 5516_OKC | -0.0 | 0.0 | 113.9 | -7.12 |
| elSn  |   | NetGr    |       |          |      |     |       | 110.0 |

# UCH - Výpadek přípojnice C v OKC

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| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0                | MWVEDENI<br>0.000         | 110kV | 5518_FA_           | -0.0  | 0.0   | 0.0     | 450               |
| APD                           |                  | MFA<br>0.274              | 110kV | SBA1               |       |       |         | 450               |
| PQnod<br>elSn                 | 0                | MWVEDENI<br>NetGr         | 110kV | 5518_FA_           | 0.0   | -0.0  | 115.7   | -5.91             |
|                               |                  |                           |       |                    |       |       |         | 110.0             |

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| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0                | MWVEDENI<br>0.000         | 110kV | 5576_OKC           | 0.0   | 0.0   | 0.0     | 450               |
| APD                           |                  | MZDO<br>0.688             | 110kV | SBA1               |       |       |         | 450               |
| PQnod<br>elSn                 | 0                | MWVEDENI<br>NetGr         | 110kV | 5576_OKC           | -0.0  | 0.0   | 105.0   | -15.94            |
|                               |                  |                           |       |                    |       |       |         | 110.0             |

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| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|-------|-------|---------|-------------------|
| oh1Cb                         | 0                | MWVEDENI<br>-0.000        | 110kV | _556_PRT           | 0.0   | 0.0   | 0.0     | 450               |
| APD                           |                  | MPRT<br>1.100             | 110kV | SBA                |       |       |         | 450               |
| PQnod<br>elSn                 | 0                | MWVEDENI<br>NetGr         | 110kV | _556_PRT           | -0.0  | -0.0  | 105.7   | -14.97            |
|                               |                  |                           |       |                    |       |       |         | 110.0             |

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| Type            | Nm    | Station  | VL    | UCH - Výpadek přípojnice C v OKC | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|-----------------|-------|----------|-------|----------------------------------|-------|-------|---------|---------|
| St1 Flg         | Flg   | Ploss    |       | Circuit                          |       |       |         | Ilim/Vn |
| (nodes: St2 Flg | Qloss |          |       | Busbar)                          |       |       |         |         |
| =====           |       |          |       |                                  |       |       |         |         |
| OhlCb           | 0     | MWVEDENI | 110kV | 5576_OKC                         | -0.0  | 0.7   | 3.8     | 450     |
|                 |       | 0.000    |       |                                  |       |       |         |         |
|                 |       | MWVEDENI | 110kV | 5576_OKC                         |       |       |         | 450     |
|                 |       | 0.688    |       |                                  |       |       |         |         |
| APD OhlCb       | 0     | MWVEDENI | 110kV | 5578_PRT                         | 12.4  | 1.0   | 68.6    | 450     |
|                 |       | -0.067   |       |                                  |       |       |         |         |
|                 |       | MPRT     | 110kV | SBA                              |       |       |         | 450     |
|                 |       | 0.975    |       |                                  |       |       |         |         |
| APD Trafo       | 0     | MZDO     | 110kV | T101_cmp                         | -12.4 | -1.7  | 69.1    | 131     |
| 12              |       | -0.044   |       |                                  |       |       |         |         |
|                 |       | MZDO     | 22kV  | SBA1                             |       |       |         | 131     |
|                 |       | -0.935   |       |                                  |       |       |         |         |
| -----           |       |          |       |                                  |       |       |         |         |
| PQnod           | 0     | MZDO     | 110kV | SBA1                             | -0.0  | -0.0  | 105.0   | -15.94  |
| elSn            |       | NetGr    |       |                                  |       |       |         |         |
|                 |       |          |       |                                  |       |       |         | 110.0   |
| 1               |       |          |       |                                  |       |       |         |         |
| ~~~~~           |       |          |       |                                  |       |       |         |         |
| ~~~~~           |       |          |       |                                  |       |       |         |         |
| =====           |       |          |       |                                  |       |       |         |         |
| Type            | Nm    | Station  | VL    | Circuit                          | Pcalc | Qcalc | I/Vcalc | In/Phi  |
| St1 Flg         | Flg   | Ploss    |       | Busbar)                          |       |       |         | Ilim/Vn |
| (nodes: St2 Flg | Qloss |          |       |                                  |       |       |         |         |
| =====           |       |          |       |                                  |       |       |         |         |
| Trafo           | 0     | MZDO     | 110kV | T101_cmp                         | 12.4  | 0.8   | 349.5   | 656     |
| 12              |       | -0.044   |       |                                  |       |       |         |         |
|                 |       | MZDO     | 110kV | SBA1                             |       |       |         | 656     |
|                 |       | -0.935   |       |                                  |       |       |         |         |
| APD             |       |          |       |                                  |       |       |         |         |
| -----           |       |          |       |                                  |       |       |         |         |
| PQnod           | 0     | MZDO     | 22kV  | SBA1                             | -12.4 | -0.8  | 20.52   | -19.93  |
| elSn            |       | NetGr    |       |                                  |       |       |         |         |
|                 |       |          |       |                                  |       |       |         | 22.00   |
| 1               |       |          |       |                                  |       |       |         |         |
| -----           |       |          |       |                                  |       |       |         |         |
| Load            | 0     | MZDO     | 22kV  | SBA1LOAD                         | -6.2  | -0.4  | 174.8   | 1312    |
| Load            | 0     | MZDO     | 22kV  | SBA2LOAD                         | -6.2  | -0.4  | 174.8   | 1312    |
| ~~~~~           |       |          |       |                                  |       |       |         |         |
| ~~~~~           |       |          |       |                                  |       |       |         |         |

## **VYPOČTENÉ HODNOTY**

**USTÁLENÝ CHOD SÍTĚ PŘI VÝPADKU VEDENÍ  
V5501, V5502 A V5506**

# UCH - výpadek vedení V5506 a V5501, V5502

Load Flow Calculation Tue 03.05.11 10:32:47 Start: manual Name:05020906  
 Copynr:35

## PROGRAM CHARACTERISTICS

|                                |                       |
|--------------------------------|-----------------------|
| 388 nodes                      | 219 lines/cables      |
| 274 loads                      | 15 busbar couplers    |
| 14 generators                  | 205 transformers      |
| 38 injections/equiv.injections | 0 equivalent branches |
|                                | 6 shunts              |
| 4 electrical sub-networks      |                       |
| 3 iterations                   |                       |
| 5 balance diagnosis            |                       |
| 0 limit violations             |                       |

## Generations, Loads and Losses

| Network Membership<br>no. undef.v | no. | own     | no. subjac. | no. boundry | no. foreign |
|-----------------------------------|-----|---------|-------------|-------------|-------------|
| Line&Coupl.                       | 212 | -11.1   | 0           | 0.0         | 22          |
| 0                                 |     |         |             |             |             |
| Sum Ploss [MW]                    |     |         |             |             |             |
| 0.0                               |     |         |             |             |             |
| Qloss [MVar]                      |     | 113.3   | 0.0         | 0.0         | 257.2       |
| 0.0                               |     |         |             |             |             |
| Transform.                        | 150 | -6.8    | 0           | 0.0         | 55          |
| 0                                 |     |         |             |             |             |
| Sum Ploss [MW]                    |     |         |             |             |             |
| 0.0                               |     |         |             |             |             |
| Qloss [MVar]                      |     | -89.7   | 0.0         | 0.0         | -86.9       |
| 0.0                               |     |         |             |             |             |
| Shunts                            | 4   | -0.1    | 0           | 0.0         | 2           |
| 0                                 |     |         |             |             |             |
| Sum Ploss [MW]                    |     |         |             |             |             |
| 0.0                               |     |         |             |             |             |
| Qloss [MVar]                      |     | 16.8    | 0.0         | 0.0         | 11.2        |
| 0.0                               |     |         |             |             |             |
| EquivBrch.                        | 0   | 0.0     | 0           | 0.0         | 0           |
| 0                                 |     |         |             |             |             |
| Sum Ploss [MW]                    |     |         |             |             |             |
| 0.0                               |     |         |             |             |             |
| Qloss [MVar]                      |     | 0.0     | 0.0         | 0.0         | 0.0         |
| 0.0                               |     |         |             |             |             |
| Network Membership<br>no. undef.v | no. | own     | no. subjac. | no. boundry | no. foreign |
| Loads                             | 203 | -1371.9 | 0           | 0.0         | 47          |
| 0                                 |     |         |             |             |             |
| Sum P(+)                          |     |         |             |             |             |
| 0.0                               |     |         |             |             |             |
| Sum Q(+)                          |     | -172.3  | 0.0         | 0.0         | 25.7        |
|                                   |     |         |             |             |             |

# UCH - výpadek vedení V5506 a V5501, V5502

|            |          |        |     |       |   |     |   |     |    |         |
|------------|----------|--------|-----|-------|---|-----|---|-----|----|---------|
| 0.0        |          |        |     |       |   |     |   |     |    |         |
| -----      |          |        |     |       |   |     |   |     |    |         |
| Generat.   | Sum P(+) | [MW ]  | 0   | 0.0   | 0 | 0.0 | 0 | 0.0 | 11 | 152.6   |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q(+) | [MVar] |     | 0.0   |   | 0.0 |   | 0.0 |    | 35.5    |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| -----      |          |        |     |       |   |     |   |     |    |         |
| Injections | Sum P(+) | [MW ]  | 2   | 32.0  | 0 | 0.0 | 0 | 0.0 | 21 | 5607.5  |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q(+) | [MVar] |     | 4.6   |   | 0.0 |   | 0.0 |    | -155.2  |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| =====      |          |        |     |       |   |     |   |     |    |         |
| Loads      | Sum P(-) | [MW ]  | 21  | 51.5  | 0 | 0.0 | 0 | 0.0 | 3  | 2.9     |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q(-) | [MVar] |     | -44.6 |   | 0.0 |   | 0.0 |    | -45.3   |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| -----      |          |        |     |       |   |     |   |     |    |         |
| Generat.   | Sum P(-) | [MW ]  | 0   | 0.0   | 0 | 0.0 | 0 | 0.0 | 3  | -1.2    |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q(-) | [MVar] |     | 0.0   |   | 0.0 |   | 0.0 |    | 1.0     |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| -----      |          |        |     |       |   |     |   |     |    |         |
| Injections | Sum P(-) | [MW ]  | 1   | -0.4  | 0 | 0.0 | 0 | 0.0 | 14 | -4245.4 |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q(-) | [MVar] |     | 0.4   |   | 0.0 |   | 0.0 |    | 128.1   |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| =====      |          |        |     |       |   |     |   |     |    |         |
| Zero_Inj.  | Sum P    | [MW ]  | 155 | 0.0   | 0 | 0.0 | 0 | 0.0 | 20 | -0.0    |
| 0          | 0.0      |        |     |       |   |     |   |     |    |         |
|            | Sum Q    | [MVar] |     | 0.1   |   | 0.0 |   | 0.0 |    | 0.1     |
|            | 0.0      |        |     |       |   |     |   |     |    |         |
| =====      |          |        |     |       |   |     |   |     |    |         |
| =====      |          |        |     |       |   |     |   |     |    |         |

```

*****
* Total Losses P [MW ] -17.930 *
* (no shunts) Q [MVar] 23.581 *
* Total Load P [MW ] -1320.486 *
* Q [MVar] -216.901 *
* Total Gener. P [MW ] 0.000 *
* Q [MVar] 0.000 *
*****

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| =====              |          |        |      |       |        |       |        |        |        |    |
|--------------------|----------|--------|------|-------|--------|-------|--------|--------|--------|----|
| -----              |          |        |      |       |        |       |        |        |        |    |
| ---Network Group-- |          | Nu.of  | No.  | P-Gen | Q-Gen  | No.   | P-Load | Q-Load | No.    |    |
| P-Loss             | Q-Loss   |        |      |       |        |       |        |        |        |    |
| Num Name           | Type     | NA nod | Gen. | [MW]  | [MVar] | Loads | [MW]   | [MVar] | 4pol.  |    |
| [MW]               | [MVar]   |        |      |       |        |       |        |        |        |    |
| -----              |          |        |      |       |        |       |        |        |        |    |
| 23                 | MTVVN023 | dyn.   | 82   | 0     | 0.0    | 0.0   | 134    | -846.5 | -140.0 | 89 |
| -4.3               | -63.9    |        |      |       |        |       |        |        |        |    |
| 16                 | LnJMEfor | dyn.   | 48   | 2     | 42.3   | 1.8   | 8      | -14.8  | -4.4   | 61 |
| -2.4               | 23.8     |        |      |       |        |       |        |        |        |    |
| 39                 | SCADA23  | fix    | 27   | 0     | 0.0    | 0.0   | 6      | 9.1    | 28.3   | 30 |
| -3.9               | 79.8     |        |      |       |        |       |        |        |        |    |
| 6                  | InJCEfor | fix    | 23   | 0     | 0.0    | 0.0   | 10     | -35.5  | -12.5  | 28 |
| -0.4               | 20.4     |        |      |       |        |       |        |        |        |    |
| 8                  | InJMEfor | fix    | 22   | 0     | 0.0    | 0.0   | 8      | -29.5  | -5.9   | 28 |
| -2.4               | 37.5     |        |      |       |        |       |        |        |        |    |
| 4                  | GeJMEfor | fix    | 19   | 0     | 0.0    | 0.0   | 7      | -41.2  | -6.6   | 22 |

UCH - výpadek vedení V5506 a V5501, V5502

|                  |    |    |      |      |   |       |       |    |
|------------------|----|----|------|------|---|-------|-------|----|
| -0.7 16.9        |    |    |      |      |   |       |       |    |
| 18 SCADA02 dyn.  | 17 | 0  | 0.0  | 0.0  | 6 | -19.0 | 0.5   | 25 |
| -0.3 21.3        |    |    |      |      |   |       |       |    |
| 1 GeJCEown dyn.  | 15 | 0  | 0.0  | 0.0  | 6 | -22.8 | -2.8  | 20 |
| -1.1 9.5         |    |    |      |      |   |       |       |    |
| 3 GeJMEown dyn.  | 13 | 10 | 91.3 | 28.3 | 5 | -63.2 | -12.1 | 16 |
| -0.7 -7.8        |    |    |      |      |   |       |       |    |
| 5 InJCEown dyn.  | 11 | 0  | 0.0  | 0.0  | 4 | -12.2 | -0.9  | 13 |
| -1.4 -3.3        |    |    |      |      |   |       |       |    |
| 7 InJMEown dyn.  | 10 | 0  | 0.0  | 0.0  | 4 | -7.3  | 11.5  | 13 |
| -3.2 25.6        |    |    |      |      |   |       |       |    |
| 10 TrJCEfor dyn. | 8  | 1  | 7.4  | 0.6  | 2 | -8.4  | -0.6  | 9  |
| -0.1 3.2         |    |    |      |      |   |       |       |    |
| 30 MTVVN030 fix  | 8  | 1  | 10.4 | 5.8  | 2 | -9.4  | -3.9  | 8  |
| -0.2 0.1         |    |    |      |      |   |       |       |    |
| 9 TrJCEown dyn.  | 8  | 0  | 0.0  | 0.0  | 1 | -0.2  | 1.1   | 11 |
| -0.8 6.9         |    |    |      |      |   |       |       |    |
| 31 MTVVN031 fix  | 6  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 5  |
| -0.2 3.2         |    |    |      |      |   |       |       |    |
| 62 RHUM1390 fix  | 5  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 4  |
| -1.8 43.9        |    |    |      |      |   |       |       |    |
| 40 SCADA24 dyn.  | 2  | 0  | 0.0  | 0.0  | 2 | -7.8  | -1.7  | 2  |
| -0.1 -0.5        |    |    |      |      |   |       |       |    |
| 49 RPIST102 fix  | 2  | 0  | 0.0  | 0.0  | 0 | 0.0   | 0.0   | 3  |
| -0.1 0.2         |    |    |      |      |   |       |       |    |
| 59 RHUMT101 fix  | 2  | 0  | 0.0  | 0.0  | 3 | -21.0 | -0.7  | 2  |
| -0.1 -0.9        |    |    |      |      |   |       |       |    |
| 20 MTVVN020 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -2.3  | -1.2  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 21 MTVVN021 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -7.7  | -3.3  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 22 MTVVN022 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -2.4  | 0.0   | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 12 TrJMEfor fix  | 1  | 0  | 0.0  | 0.0  | 1 | 0.1   | -0.9  | 1  |
| -0.0 -0.0        |    |    |      |      |   |       |       |    |
| 24 MTVVN024 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -9.3  | -2.0  | 1  |
| -0.0 -0.5        |    |    |      |      |   |       |       |    |
| 25 MTVVN025 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -5.3  | -0.7  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 26 MTVVN026 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -8.4  | -1.8  | 1  |
| -0.1 -0.5        |    |    |      |      |   |       |       |    |
| 27 MTVVN027 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -8.0  | -2.1  | 1  |
| -0.1 -0.4        |    |    |      |      |   |       |       |    |
| 28 MTVVN028 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -3.5  | -1.0  | 1  |
| -0.1 -0.4        |    |    |      |      |   |       |       |    |
| 29 MTVVN029 fix  | 1  | 0  | 0.0  | 0.0  | 1 | -4.0  | -2.7  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 13 LnJCEown dyn. | 1  | 0  | 0.0  | 0.0  | 1 | 0.5   | -0.5  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 15 LnJMEown dyn. | 1  | 0  | 0.0  | 0.0  | 1 | -4.2  | -2.0  | 1  |
| -0.0 -0.1        |    |    |      |      |   |       |       |    |
| 32 MTVVN032 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -10.9 | 1.6   | 1  |
| -0.1 -0.7        |    |    |      |      |   |       |       |    |
| 33 MTVVN033 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -2.5  | -0.2  | 1  |
| -0.0 -0.0        |    |    |      |      |   |       |       |    |
| 34 MTVVN034 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -7.8  | -0.3  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |
| 35 MTVVN035 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -5.4  | -1.3  | 1  |
| -0.0 -0.2        |    |    |      |      |   |       |       |    |
| 36 MTVVN036 dyn. | 1  | 0  | 0.0  | 0.0  | 2 | -8.9  | -3.4  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 37 MTVVN037 fix  | 1  | 0  | 0.0  | 0.0  | 2 | -6.4  | -0.2  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 38 SCADA22 fix   | 1  | 0  | 0.0  | 0.0  | 2 | -1.4  | -0.3  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |
| 14 LnJCEfor dyn. | 1  | 0  | 0.0  | 0.0  | 1 | -8.8  | -2.1  | 1  |
| -0.0 -0.4        |    |    |      |      |   |       |       |    |
| 17 SCADA01 dyn.  | 1  | 0  | 0.0  | 0.0  | 1 | -7.4  | -2.9  | 1  |
| -0.0 -0.3        |    |    |      |      |   |       |       |    |

|    |                            | UCH - výpadek vedení v5506 a v5501, v5502 |   |     |     |   |        |       |   |
|----|----------------------------|-------------------------------------------|---|-----|-----|---|--------|-------|---|
| 41 | SCADA25 dyn.<br>-0.0 -0.1  | 1                                         | 0 | 0.0 | 0.0 | 1 | -1.5   | -2.4  | 1 |
| 42 | RPRAT101 fix<br>-0.1 -0.5  | 1                                         | 0 | 0.0 | 0.0 | 1 | -11.3  | -2.0  | 1 |
| 43 | RPRAT102 fix<br>-0.1 -0.5  | 1                                         | 0 | 0.0 | 0.0 | 1 | -5.2   | -1.9  | 1 |
| 44 | RSTRT101 fix<br>-0.1 -0.4  | 1                                         | 0 | 0.0 | 0.0 | 1 | -0.2   | -2.0  | 1 |
| 45 | RSTRT102 fix<br>-0.1 -0.1  | 1                                         | 0 | 0.0 | 0.0 | 1 | -2.0   | -1.3  | 1 |
| 46 | RMRCT101 fix<br>-0.0 -0.0  | 1                                         | 0 | 0.0 | 0.0 | 1 | -2.6   | -1.9  | 1 |
| 47 | RMRCT102 fix<br>-0.1 -1.8  | 1                                         | 0 | 0.0 | 0.0 | 2 | -24.4  | -2.9  | 1 |
| 48 | RPIST101 fix<br>-0.0 -0.2  | 1                                         | 0 | 0.0 | 0.0 | 2 | 4.6    | -5.1  | 1 |
| 11 | TrJMEown dyn.<br>-0.0 -0.2 | 1                                         | 0 | 0.0 | 0.0 | 1 | -3.3   | -0.5  | 1 |
| 50 | RDAST401 dyn.<br>-0.0 -0.2 | 1                                         | 0 | 0.0 | 0.0 | 1 | -3.1   | -3.4  | 1 |
| 51 | RDAST402 fix<br>-0.1 -0.6  | 1                                         | 0 | 0.0 | 0.0 | 1 | -11.5  | -1.9  | 1 |
| 52 | RKOCT401 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 1 | -5.4   | -0.9  | 1 |
| 53 | RKOCT402 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 1 | -6.0   | -1.1  | 1 |
| 54 | RTABT201 fix<br>-0.0 -0.7  | 1                                         | 0 | 0.0 | 0.0 | 1 | -10.8  | -1.6  | 1 |
| 55 | RELI_TG1 fix<br>-0.0 -0.2  | 1                                         | 0 | 0.0 | 0.0 | 1 | -2.7   | 0.2   | 1 |
| 56 | RELI_TG2 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 1 | -8.0   | -1.8  | 1 |
| 57 | RMRC1964 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 1 | -7.5   | -1.8  | 1 |
| 58 | RMRC1965 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 2 | -7.6   | -1.7  | 1 |
| 19 | SCADA03 dyn.<br>-0.0 -0.2  | 1                                         | 0 | 0.0 | 0.0 | 1 | -2.0   | 0.3   | 1 |
| 60 | RHUMT102 fix<br>-0.4 -5.3  | 1                                         | 0 | 0.0 | 0.0 | 3 | -102.7 | -12.7 | 1 |
| 2  | GeJCEfor dyn.<br>-0.0 -0.0 | 1                                         | 0 | 0.0 | 0.0 | 1 | -2.4   | -0.1  | 1 |
| 63 | RPELT101 fix<br>-0.0 -0.1  | 1                                         | 0 | 0.0 | 0.0 | 1 | -1.6   | -0.7  | 1 |
| 64 | RPELT102 fix<br>-0.0 -0.3  | 1                                         | 0 | 0.0 | 0.0 | 1 | -8.4   | -1.8  | 1 |
| 65 | RPACT101 fix<br>-0.1 -0.8  | 1                                         | 0 | 0.0 | 0.0 | 1 | -11.3  | -2.1  | 1 |
| 66 | RPACT102 fix<br>-0.1 -0.6  | 1                                         | 0 | 0.0 | 0.0 | 1 | -8.9   | -1.7  | 1 |
| 67 | RPOCT101 fix<br>-0.0 -1.0  | 1                                         | 0 | 0.0 | 0.0 | 1 | -18.3  | -4.6  | 1 |
| 68 | RTABT101 fix<br>-0.0 -0.1  | 1                                         | 0 | 0.0 | 0.0 | 1 | -5.1   | -0.3  | 1 |
| 69 | RTABT102 fix<br>-0.0 -0.1  | 1                                         | 0 | 0.0 | 0.0 | 1 | -4.0   | -0.4  | 1 |
| 70 | RBEXT101 fix<br>-0.0 -0.0  | 1                                         | 0 | 0.0 | 0.0 | 1 | -1.5   | -0.3  | 1 |

#### Modification Factors and Limits

|                    |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Voltage Level [kV] | 400.0       | 220.0       | 110.0       | 24.0        | 22.0        |
| 15.0               |             |             |             |             |             |
| Factors I          | 100.00 nmod | 100.00 nmod | 100.00 nmod | 100.00 nmod | 100.00 nmod |

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100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

vlow 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod 100.00 nmod  
100.00 nmod

Voltage Level [kV] 10.0 6.3

Factors I 100.00 nmod 100.00 nmod

Factors Vupp 100.00 nmod 100.00 nmod

vlow 100.00 nmod 100.00 nmod

Voltage Level [kV] all

Factors Qupp 100.00 nmod

qlow 100.00 nmod

## FLAGS

-----  
column1/2

\* = diagnosis indication (discrepancies/limit violations)

E = eliminated node

## Calculated Value

O measurand (balance) U prov. splitted balance

X undefined i invalid

S pseudo measurement V limit violation

## Taps

p Phase shifter transformer

u Tap changer is at low voltage side

A Tap position adjusted

P tap position postprocessed

E Tap position estimated

D Tap position estimated with discrepancy

B Tap position estimated and identified as bad data

X tap position unobservable

## Indicators for Network Membership

-----  
O own

S subjacent own

B boundary

F foreign

R result NR

r to reduce

| =====           |       |         |          |         |          |       |         |         |     |
|-----------------|-------|---------|----------|---------|----------|-------|---------|---------|-----|
| Type            | Nm    | Station | VL       | Circuit | Pcalc    | Qcalc | I/Vcalc | In/Phi  |     |
| St1 Flg         |       | Ploss   |          | Busbar) |          |       |         | Ilim/Vn |     |
| (nodes: St2 Flg |       | Qloss   |          |         |          |       |         |         |     |
| =====           |       |         |          |         |          |       |         |         |     |
| APD             | Oh1Cb | O       | MWVEDENI | 110kv   | 5507_BAR | -24.0 | -4.5    | 119.2   | 450 |
|                 |       |         | -0.019   |         |          |       |         |         |     |
|                 |       |         | MBHN     | 110kv   | SBA1     |       |         |         | 450 |
|                 |       |         | 0.065    |         |          |       |         |         |     |
|                 | Oh1Cb | O       | MWVEDENI | 110kv   | 5508_BAR | 35.9  | 9.0     | 180.3   | 450 |
|                 |       |         | -0.020   |         |          |       |         |         |     |
|                 |       |         | MOK_D    | 110kv   | SBA1     |       |         |         | 450 |

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|       |      |       |        |      |       |      |       |       |       |
|-------|------|-------|--------|------|-------|------|-------|-------|-------|
| APD   |      |       | -0.002 |      |       |      |       |       |       |
| PQnod | O    | MBAR  | 110kV  | SBA1 | -11.8 | -4.5 | 118.4 | -4.09 |       |
|       | elSn | NetGr |        |      |       |      |       |       | 110.0 |
|       | 1    |       |        |      |       |      |       |       |       |

|      |   |      |       |          |       |      |      |     |  |
|------|---|------|-------|----------|-------|------|------|-----|--|
| Load | F | MBAR | 110kV | T101LOAD | -11.8 | -4.5 | 61.8 | 210 |  |
| Load | F | MBAR | 110kV | T102LOAD | 0.0   | 0.0  | 0.0  | 210 |  |

| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |  |
|---------|-------|----------|-------|----------|-------|-------|---------|---------|--|
| St1 Flg |       | Ploss    |       | (Busbar) |       |       |         | Ilim/Vn |  |
| (nodes: |       |          |       |          |       |       |         |         |  |
| St2 Flg | Qloss |          |       |          |       |       |         |         |  |
| OhlCb   | O     | MWVEDENI | 110kV | 5507_BAR | 24.0  | 4.5   | 119.3   | 450     |  |
|         |       | -0.019   |       |          |       |       |         |         |  |
|         |       | MBAR     | 110kV | SBA1     |       |       |         | 450     |  |
| APD     |       | 0.065    |       |          |       |       |         |         |  |
| Trafo   | O     | MBHN     | 110kV | T101_cmp | -10.5 | -1.9  | 52.0    | 210     |  |
| 13      |       | -0.051   |       |          |       |       |         |         |  |
|         |       | MBHN     | 22kV  | SBA      |       |       |         | 210     |  |
| APD     |       | -0.650   |       |          |       |       |         |         |  |
| Trafo   | O     | MBHN     | 110kV | T102_cmp | -13.5 | -2.7  | 67.4    | 210     |  |
| 14      |       | -0.034   |       |          |       |       |         |         |  |
|         |       | MBHN     | 22kV  | SBB      |       |       |         | 131     |  |
| APD     |       | -0.592   |       |          |       |       |         |         |  |

|       |      |       |       |      |      |     |       |       |       |
|-------|------|-------|-------|------|------|-----|-------|-------|-------|
| PQnod | O    | MBHN  | 110kV | SBA1 | -0.0 | 0.0 | 118.3 | -4.19 |       |
|       | elSn | NetGr |       |      |      |     |       |       | 110.0 |
|       | 1    |       |       |      |      |     |       |       |       |

| Type    | Nm    | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |  |
|---------|-------|---------|-------|----------|-------|-------|---------|---------|--|
| St1 Flg |       | Ploss   |       | (Busbar) |       |       |         | Ilim/Vn |  |
| (nodes: |       |         |       |          |       |       |         |         |  |
| St2 Flg | Qloss |         |       |          |       |       |         |         |  |
| Trafo   | O     | MBHN    | 110kV | T101_cmp | 10.4  | 1.2   | 266.4   | 1050    |  |
| 13      |       | -0.051  |       |          |       |       |         |         |  |
|         |       | MBHN    | 110kV | SBA1     |       |       |         | 1050    |  |
| APD     |       | -0.650  |       |          |       |       |         |         |  |

|       |      |       |      |     |       |      |       |       |       |
|-------|------|-------|------|-----|-------|------|-------|-------|-------|
| PQnod | O    | MBHN  | 22kV | SBA | -10.4 | -1.2 | 22.76 | -5.98 |       |
|       | elSn | NetGr |      |     |       |      |       |       | 22.00 |
|       | 1    |       |      |     |       |      |       |       |       |

|      |   |      |      |         |       |      |       |      |  |
|------|---|------|------|---------|-------|------|-------|------|--|
| Load | O | MBHN | 22kV | SBALOAD | -10.4 | -1.2 | 266.4 | 1706 |  |
|------|---|------|------|---------|-------|------|-------|------|--|

UCH - výpadek vedení V5506 a V5501, V5502

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss                    | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|-------------------------------------|----------------|--------------------|-------|-------|---------|-------------------|
| Flg                           | Qloss     |                                     |                |                    |       |       |         |                   |
| Trafo<br>14                   | 0         | MBHN<br>-0.034<br>MBHN<br>-0.592    | 110kV<br>110kV | T102_cmp<br>SBA1   | 13.5  | 2.1   | 353.9   | 1050<br>656       |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0         | MBHN<br>NetGr                       | 22kV           | SBB                | -13.5 | -2.1  | 22.29   | -6.61<br>22.00    |
| 1                             |           |                                     |                |                    |       |       |         |                   |
| Load                          | 0         | MBHN                                | 22kV           | SBBLOAD            | -13.5 | -2.1  | 353.9   | 1706              |
|                               |           |                                     |                |                    |       |       |         |                   |
|                               |           |                                     |                |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss                    | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| Flg                           | Qloss     |                                     |                |                    |       |       |         |                   |
| ohlCb                         | 0         | MWVEDENI<br>-0.005<br>MOKC<br>1.014 | 110kV<br>110kV | _559_CHR<br>SBB1   | 4.1   | -0.1  | 19.9    | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | F         | MCHR<br>NetGr                       | 110kV          | SBA1               | -4.1  | 0.1   | 118.7   | -4.04<br>110.0    |
| 1                             |           |                                     |                |                    |       |       |         |                   |
| Load                          | F         | MCHR                                | 110kV          | T102LOAD           | -4.1  | 0.1   | 19.9    | 84                |
|                               |           |                                     |                |                    |       |       |         |                   |
|                               |           |                                     |                |                    |       |       |         |                   |
| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss                    | VL             | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| Flg                           | Qloss     |                                     |                |                    |       |       |         |                   |
| ohlCb                         | 0         | MWVEDENI<br>-0.000<br>MOKC<br>0.287 | 110kV<br>110kV | 5518_FA_<br>SBC1   | 1.7   | -0.3  | 8.3     | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| ohlCb                         | 0         | MWVEDENI<br>-0.000<br>MOKC<br>0.287 | 110kV<br>110kV | 5519_FA_<br>SBB1   | 1.7   | -0.3  | 8.3     | 450<br>450        |
| APD                           |           |                                     |                |                    |       |       |         |                   |
| PQnod<br>elSn                 | 0         | MFA<br>NetGr                        | 110kV          | SBA1               | -3.4  | 0.6   | 118.7   | -3.88<br>110.0    |
| 1                             |           |                                     |                |                    |       |       |         |                   |

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|      |   |     |       |          |      |     |      |     |
|------|---|-----|-------|----------|------|-----|------|-----|
| Load | F | MFA | 110kV | T102LOAD | -3.4 | 0.6 | 16.7 | 131 |
|------|---|-----|-------|----------|------|-----|------|-----|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|       |   |               |       |        |       |      |        |      |
|-------|---|---------------|-------|--------|-------|------|--------|------|
| Trafo | 0 | MHO<br>-0.098 | 110kV | T8_cmp | -34.3 | -7.2 | 1758.6 | 3637 |
| APD   |   | MHO<br>-2.068 | 110kV | SBA1   |       |      |        | 3637 |

|       |      |       |      |      |      |     |       |       |
|-------|------|-------|------|------|------|-----|-------|-------|
| PVnod | 0    | MHO   | 10kV | SBA3 | 34.3 | 7.2 | 11.51 | 2.75  |
|       | elSn | NetGr |      |      |      |     |       | 10.00 |
| 1     |      |       |      |      |      |     |       |       |

|     |   |     |      |         |      |     |        |      |
|-----|---|-----|------|---------|------|-----|--------|------|
| Gen | F | MHO | 10kV | GEN3cmp | 34.3 | 7.2 | 1758.6 | 3437 |
|-----|---|-----|------|---------|------|-----|--------|------|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|       |   |               |       |         |       |      |        |      |
|-------|---|---------------|-------|---------|-------|------|--------|------|
| Trafo | 0 | MHO<br>-0.083 | 110kV | T10_cmp | -26.6 | -6.6 | 1374.0 | 3637 |
| APD   |   | MHO<br>-1.405 | 110kV | SBA1    |       |      |        | 3637 |

|       |      |       |      |      |      |     |       |       |
|-------|------|-------|------|------|------|-----|-------|-------|
| PVnod | 0    | MHO   | 10kV | SBA4 | 26.6 | 6.6 | 11.51 | 2.13  |
|       | elSn | NetGr |      |      |      |     |       | 10.00 |
| 1     |      |       |      |      |      |     |       |       |

|     |   |     |      |          |      |     |        |      |
|-----|---|-----|------|----------|------|-----|--------|------|
| Gen | F | MHO | 10kV | GEN.4cmp | 26.6 | 6.6 | 1374.0 | 3437 |
|-----|---|-----|------|----------|------|-----|--------|------|

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|-----------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

|       |   |                    |       |          |       |      |       |     |
|-------|---|--------------------|-------|----------|-------|------|-------|-----|
| OhlCb | 0 | MWVEDENI<br>-0.151 | 110kV | _533_HO_ | -29.9 | -5.6 | 147.2 | 450 |
|       |   | MTD                | 110kV | SB.A     |       |      |       | 450 |
| APD   |   | 0.217              |       |          |       |      |       |     |
| OhlCb | 0 | MWVEDENI<br>-0.007 | 110kV | _534_HO_ | -6.4  | 0.7  | 31.2  | 450 |
| APD   |   | MWVEDSBV<br>0.655  | 110kV | _534_A   |       |      |       | 450 |

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|-------------------------------------------|---|-----------------------------|-------|----------|------|------|-------|-----|
| ohlCb                                     | O | MWVEDENI<br>-0.033          | 110kV | _535_HO_ | -6.6 | 1.2  | 32.5  | 450 |
|                                           |   | MSO                         | 110kV | SBA1     |      |      |       | 450 |
| APD<br>ohlCb                              | O | 2.390<br>MWVEDENI<br>-0.031 | 110kV | _536_HO_ | -6.8 | 0.9  | 33.1  | 450 |
|                                           |   | MSO                         | 110kV | SBA1     |      |      |       | 450 |
| APD<br>Trafo                              | O | 2.402<br>MHO                | 110kV | T10_cmp  | 26.5 | 5.2  | 130.5 | 331 |
|                                           |   | -0.083                      | 10kV  | SBA4     |      |      |       | 331 |
| APD<br>Trafo<br>12                        | O | -1.405<br>MHO               | 110kV | T13_cmp  | -5.9 | -1.7 | 29.7  | 210 |
|                                           |   | -0.046                      | 22kV  | SBA      |      |      |       | 210 |
| APD<br>Trafo                              | O | -0.251<br>MHO               | 110kV | T8_cmp   | 34.2 | 5.1  | 167.3 | 331 |
|                                           |   | -0.098                      | 10kV  | SBA3     |      |      |       | 331 |
| APD                                       |   | -2.068                      |       |          |      |      |       |     |

|       |   |       |       |      |      |      |       |       |
|-------|---|-------|-------|------|------|------|-------|-------|
| PQnod | O | MHO   | 110kV | SBA1 | -5.0 | -5.9 | 119.4 | 0.01  |
| eISn  |   | NetGr |       |      |      |      |       | 110.0 |
| 1     |   |       |       |      |      |      |       |       |

|      |   |     |       |         |      |      |      |    |
|------|---|-----|-------|---------|------|------|------|----|
| Load | O | MHO | 110kV | T12LOAD | -5.0 | -5.9 | 37.6 | 84 |
|------|---|-----|-------|---------|------|------|------|----|

| Type         | Nm | Station                     | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|--------------|----|-----------------------------|-------|----------|-------|-------|---------|---------|
| St1 Flg      |    | Ploss                       |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes:      |    |                             |       |          |       |       |         |         |
| St2 Flg      |    | Qloss                       |       |          |       |       |         |         |
| ohlCb        | O  | MWVEDENI<br>-0.003          | 110kV | _541_HO_ | 1.0   | -2.8  | 14.7    | 450     |
|              |    | MKY                         | 110kV | SBA1     |       |       |         | 450     |
| APD<br>ohlCb | O  | 0.893<br>MWVEDENI<br>-0.003 | 110kV | _542_HO_ | 1.9   | 5.5   | 28.9    | 450     |
|              |    | MPNV                        | 110kV | SBA1     |       |       |         | 450     |
| APD<br>ohlCb | O  | 0.348<br>MWVEDENI<br>-0.005 | 110kV | _544_HO_ | -2.9  | -2.7  | 19.6    | 450     |
|              |    | MVLM                        | 110kV | SBA7     |       |       |         | 450     |
| APD          |    | 0.910                       |       |          |       |       |         |         |

|       |   |       |       |      |     |     |       |       |
|-------|---|-------|-------|------|-----|-----|-------|-------|
| PQnod | O | MHO   | 110kV | SBB1 | 0.0 | 0.0 | 116.3 | -6.80 |
| eISn  |   | NetGr |       |      |     |     |       | 110.0 |
| 1     |   |       |       |      |     |     |       |       |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |        |       |         |     |     |       |      |
|-------|---|--------|-------|---------|-----|-----|-------|------|
| Trafo | 0 | MHO    | 110kV | T13_cmp | 5.9 | 1.4 | 148.6 | 1050 |
| 12    |   | -0.046 | 110kV | SBA1    |     |     |       | 1050 |
| APD   |   | -0.251 |       |         |     |     |       |      |

|       |   |       |      |     |      |      |       |       |
|-------|---|-------|------|-----|------|------|-------|-------|
| PQnod | 0 | MHO   | 22kV | SBA | -5.9 | -1.4 | 23.45 | -0.87 |
| elSn  |   | NetGr |      |     |      |      |       | 22.00 |
| 1     |   |       |      |     |      |      |       |       |

|      |   |     |      |         |      |      |       |      |
|------|---|-----|------|---------|------|------|-------|------|
| Load | 0 | MHO | 22kV | SBALOAD | -5.9 | -1.4 | 148.6 | 3149 |
|------|---|-----|------|---------|------|------|-------|------|

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |          |       |          |       |      |       |     |
|-------|---|----------|-------|----------|-------|------|-------|-----|
| ohlcb | 0 | MWVEDENI | 110kV | _550_HUN | 31.9  | 6.5  | 159.8 | 450 |
|       |   | -0.210   | 110kV | SBC1     |       |      |       | 450 |
| APD   |   | MOKC     |       |          |       |      |       |     |
|       |   | 0.139    | 110kV | T102_cmp | -31.9 | -6.5 | 159.8 | 210 |
| Trafo | 0 | MHUN     | 110kV |          |       |      |       |     |
| 12    |   | -0.112   | 22kV  | SBA      |       |      |       | 210 |
| APD   |   | MHUN     |       |          |       |      |       |     |
|       |   | -3.135   |       |          |       |      |       |     |

|       |   |       |       |      |      |      |       |       |
|-------|---|-------|-------|------|------|------|-------|-------|
| PQnod | 0 | MHUN  | 110kV | SBA1 | -0.0 | -0.0 | 117.7 | -4.60 |
| elSn  |   | NetGr |       |      |      |      |       | 110.0 |
| 1     |   |       |       |      |      |      |       |       |

| Type    | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |    |         |       |       |         |         |
| St2 Flg |    | Qloss   |    |         |       |       |         |         |

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | 0 | MHUN   | 110kV | T102_cmp | 31.8 | 3.4 | 809.1 | 1050 |
| 12    |   | -0.112 | 110kV | SBA1     |      |     |       | 1050 |
| APD   |   | MHUN   |       |          |      |     |       |      |
|       |   | -3.135 |       |          |      |     |       |      |

|       |   |       |      |     |       |      |       |       |
|-------|---|-------|------|-----|-------|------|-------|-------|
| PQnod | 0 | MHUN  | 22kV | SBA | -31.8 | -3.4 | 22.82 | -9.87 |
| elSn  |   | NetGr |      |     |       |      |       | 22.00 |
| 1     |   |       |      |     |       |      |       |       |

|      |   |      |      |         |       |      |       |      |
|------|---|------|------|---------|-------|------|-------|------|
| Load | 0 | MHUN | 22kV | SBALOAD | -14.5 | -1.0 | 367.7 | 2099 |
| Load | 0 | MHUN | 22kV | SBBLOAD | -17.3 | -2.4 | 441.9 | 2099 |

| Type | Nm | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi |
|------|----|---------|----|---------|-------|-------|---------|--------|
|------|----|---------|----|---------|-------|-------|---------|--------|

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| St1 Flg<br>(nodes:<br>St2 Flg | Ploss<br>Qloss | Busbar)                 |       | Ilim/Vn  |      |      |       |       |
|-------------------------------|----------------|-------------------------|-------|----------|------|------|-------|-------|
| ohlCb                         | 0              | MWVEDENI<br>-0.028      | 110kV | 5594_KNC | 9.2  | 2.3  | 47.9  | 450   |
|                               |                | MPRT                    | 110kV | SBA      |      |      |       | 450   |
| APD<br>Trafo<br>12            | 0              | 0.943<br>MKNC<br>-0.029 | 110kV | T102_cmp | -9.2 | -2.3 | 47.9  | 131   |
| APD                           |                | MKNC<br>-0.454          | 22kV  | SBA1     |      |      |       | 131   |
| PQnod<br>elSn                 | 0              | MKNC<br>NetGr           | 110kV | SBA1     | 0.0  | -0.0 | 114.7 | -7.78 |
| 1                             |                |                         |       |          |      |      |       | 110.0 |

| Type    | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |       |       |         |         |
| St2 Flg |    | Qloss   |       |          |       |       |         |         |
| Trafo   | 0  | MKNC    | 110kv | T102_cmp | 9.2   | 1.9   | 242.2   | 656     |
| 12      |    | -0.029  | 110kv | SBA1     |       |       |         | 656     |
| APD     |    | MKNC    |       |          |       |       |         |         |
|         |    | -0.454  |       |          |       |       |         |         |
| PQnod   | 0  | MKNC    | 22kv  | SBA1     | -9.2  | -1.9  | 22.36   | -10.36  |
| elSn    |    | NetGr   |       |          |       |       |         | 22.00   |
| 1       |    |         |       |          |       |       |         |         |
| Load    | 0  | MKNC    | 22kv  | SBA1LOAD | -9.6  | -0.9  | 249.0   | 1312    |
| Load    | 0  | MKNC    | 22kv  | SBA2LOAD | 0.4   | -1.0  | 26.7    | 1312    |

| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Ploss<br>Qloss | Station<br>VL      | Circuit<br>Busbar) | Pcalc    | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |     |
|---------------------------------------|----------------------|--------------------|--------------------|----------|-------|---------|-------------------|-----|
| ohlCb                                 | 0                    | MWVEDENI<br>-0.308 | 110kv              | _546_KUN | 32.7  | -3.1    | 160.2             | 450 |
| APD                                   |                      | MOKC<br>0.258      | 110kv              | SBA1     |       |         |                   | 450 |
| ohlCb                                 | 0                    | MWVEDENI<br>-0.033 | 110kv              | 5540_KUN | -21.0 | 5.8     | 106.4             | 450 |
| APD                                   |                      | MNA_D<br>0.185     | 110kv              | SBA1     |       |         |                   | 450 |
| Trafo<br>13                           | F                    | MKUN<br>-0.056     | 110kv              | T101_cmp | -11.7 | -2.7    | 58.4              | 210 |
| APD                                   |                      | MKUN<br>-0.518     | 22kv               | SBB1     |       |         |                   | 131 |

PQnod O MKUN UCH - výpadek vedení V5506 a V5501, V5502  
 elSn NetGr 110kV SBA1 -0.0 0.0 118.2 -5.52  
 1 110.0  
 ~~~~~  
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=====  
 =====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 St1 Flg Ploss Busbar) Ilim/Vn  
 (nodes: St2 Flg Qloss  
 =====

Trafo F MKUN 110kV T101\_cmp 11.6 2.2 300.4 1050  
 13 -0.056  
 APD MKUN 110kV SBA1 656  
 -0.518

PQnod O MKUN 22kV SBB1 -11.6 -2.2 22.69 -7.42  
 elSn NetGr 22.00  
 1

Load O MKUN 22kV SBB1LOAD -5.8 -1.1 150.2 1706  
 Load O MKUN 22kV SBB2LOAD -5.8 -1.1 150.2 1706  
 ~~~~~  
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=====  
 =====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 St1 Flg Ploss Busbar) Ilim/Vn  
 (nodes: St2 Flg Qloss  
 =====

ohlcb O MWVEDENI 110kV \_541\_HO\_ -1.0 3.7 19.0 450  
 -0.003  
 MHO 110kV SBB1 450  
 APD 0.893  
 ohlcb O MWVEDENI 110kV \_545\_KY\_ 37.6 4.5 188.2 450  
 -0.716  
 MOKC 110kV SBA1 450  
 APD -0.150  
 Trafo O MKY 110kV T101\_cmp -23.8 -5.7 121.5 210  
 13 -0.121  
 MKY 22kV SBA1 210  
 APD -1.922  
 Trafo O MKY 110kV T102\_cmp -12.8 -2.5 65.0 210  
 13 -0.033  
 MKY 22kV SBB1 210  
 APD -0.549

PQnod O MKY 110kV SBA1 -0.0 -0.0 116.1 -6.71  
 elSn NetGr 110.0  
 1

=====  
 =====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 St1 Flg Ploss

UCH - výpadek vedení V5506 a V5501, V5502

| (nodes:<br>St2 | Flg | Qloss         |      | Busbar)  |      |      |       | Ilim/Vn |
|----------------|-----|---------------|------|----------|------|------|-------|---------|
| oh1Cb          | 0   | MKY<br>-0.000 | 22kv | V352     | 0.5  | -0.2 | 14.5  | 500     |
| APD            |     | MKY<br>0.002  | 22kv | SBA1     |      |      |       | 500     |
| oh1Cb          | 0   | MKY<br>-0.000 | 22kv | V353     | 0.5  | -0.2 | 14.5  | 500     |
| APD            |     | MKY<br>0.002  | 22kv | SBA1     |      |      |       | 500     |
| Trafo          | 0   | MKY<br>-0.026 | 22kv | BAT01cmp | -1.0 | 0.4  | 29.1  | 241     |
| APD            |     | MKY<br>-0.052 | 6kv  | SBV.T01  |      |      |       | 241     |
| PQnod          | 0   | MKY           | 22kv | SBA      | -0.0 | -0.0 | 22.08 | -10.76  |
| elSn           |     | NetGr         |      |          |      |      |       | 22.00   |
| 1              |     |               |      |          |      |      |       |         |

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Type St1	Nm Flg	Station Ploss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
(nodes: St2	Flg	Qloss						
oh1Cb	0	MKY -0.000	22kv	V352	-0.5	0.2	14.6	500
APD		MKY 0.002	22kv	SBA				500
oh1Cb	0	MKY -0.000	22kv	V353	-0.5	0.2	14.6	500
APD		MKY 0.002	22kv	SBA				500
Trafo 13	0	MKY -0.121	110kv	T101_cmp	23.6	3.8	625.7	1050
APD		MKY -1.922	110kv	SBA1				1050
PQnod	0	MKY	22kv	SBA1	-22.6	-4.2	22.08	-10.71
elSn		NetGr						22.00
1								
Load	0	MKY	22kv	SBA1LOAD	-11.3	-2.1	300.5	2099
Load	0	MKY	22kv	SBA2LOAD	-11.3	-2.1	300.5	2099

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| Type<br>St1    | Nm<br>Flg | Station<br>Ploss | VL   | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|----------------|-----------|------------------|------|--------------------|-------|-------|---------|-------------------|
| (nodes:<br>St2 | Flg       | Qloss            |      |                    |       |       |         |                   |
| oh1Cb          | 0         | MKY<br>0.000     | 22kv | V19                | 0.0   | 0.0   | 0.0     | 500               |
|                |           | MKY              | 22kv | SBB1               |       |       |         | 500               |

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|       |       |       |      |     |     |     |       |       |
|-------|-------|-------|------|-----|-----|-----|-------|-------|
| APD   | 0.051 |       |      |     |     |     |       |       |
| PQnod | 0     | MKY   | 22kV | SBB | 0.0 | 0.0 | 22.30 | -8.98 |
| elSn  |       | NetGr |      |     |     |     |       | 22.00 |

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| Type    | Nm | Station | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |       | (Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |       |          |       |       |         |         |
| St2 Flg |    | Qloss   |       |          |       |       |         |         |
| oh1cb   | 0  | MKY     | 22kV  | V19      | -0.0  | 0.1   | 1.3     | 500     |
|         |    | 0.000   |       |          |       |       |         |         |
|         |    | MKY     | 22kV  | SBB      |       |       |         | 500     |
|         |    | 0.051   |       |          |       |       |         |         |
| APD     |    | MKY     | 110kV | T102_cmp | 12.8  | 1.9   | 335.3   | 1050    |
| Trafo   | 0  | -0.033  |       |          |       |       |         |         |
| 13      |    | MKY     | 110kV | SBA1     |       |       |         | 1050    |
|         |    | -0.549  |       |          |       |       |         |         |
| APD     |    |         |       |          |       |       |         |         |

|       |   |       |      |      |       |      |       |       |
|-------|---|-------|------|------|-------|------|-------|-------|
| PQnod | 0 | MKY   | 22kV | SBB1 | -12.8 | -2.0 | 22.30 | -8.98 |
| elSn  |   | NetGr |      |      |       |      |       | 22.00 |

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|      |   |     |      |          |      |      |       |      |
|------|---|-----|------|----------|------|------|-------|------|
| Load | 0 | MKY | 22kV | SBB1LOAD | -6.4 | -1.0 | 167.7 | 2099 |
| Load | 0 | MKY | 22kV | SBB2LOAD | -6.4 | -1.0 | 167.7 | 2099 |

| Type    | Nm | Station | VL  | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|-----|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |     | (Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |     |          |       |       |         |         |
| St2 Flg |    | Qloss   |     |          |       |       |         |         |
| Trafo   | 0  | MKY     | 6kV | B1T01cmp | -0.0  | -0.0  | 0.0     | 999     |
|         |    | -0.025  |     |          |       |       |         |         |
|         |    | MKY     | 6kV | SBV.T01  |       |       |         | 999     |
|         |    | -0.049  |     |          |       |       |         |         |
| APD     |    |         |     |          |       |       |         |         |

|       |   |       |     |          |     |     |      |        |
|-------|---|-------|-----|----------|-----|-----|------|--------|
| PQnod | 0 | MKY   | 6kV | B1T01cmp | 0.0 | 0.0 | 6.35 | -11.40 |
| elSn  |   | NetGr |     |          |     |     |      | 6.30   |

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| Type    | Nm | Station | VL   | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|---------|------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss   |      | (Busbar) |       |       |         | Ilim/Vn |
| (nodes: |    |         |      |          |       |       |         |         |
| St2 Flg |    | Qloss   |      |          |       |       |         |         |
| Trafo   | 0  | MKY     | 22kV | BAT01cmp | 1.0   | -0.5  | 100.9   | 843     |

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|       |   |  |        |      |          |      |      |       |      |
|-------|---|--|--------|------|----------|------|------|-------|------|
|       |   |  | -0.026 |      |          |      |      |       |      |
|       |   |  | MKY    | 22kV | SBA      |      |      |       | 843  |
| APD   |   |  | -0.052 |      |          |      |      |       |      |
| Trafo | 0 |  | MKY    | 6kV  | B1T01cmp | -0.0 | -0.0 | 5.0   | 999  |
|       |   |  | -0.025 |      |          |      |      |       |      |
|       |   |  | MKY    | 6kV  | B1T01cmp |      |      |       | 999  |
| APD   |   |  | -0.049 |      |          |      |      |       |      |
| Trafo | 0 |  | MKY    | 6kV  | B3T01cmp | -1.0 | 0.5  | 100.8 | 1842 |
|       |   |  | -0.026 |      |          |      |      |       |      |
|       |   |  | MKY    | 6kV  | SBV.TG3  |      |      |       | 1842 |
| APD   |   |  | -0.111 |      |          |      |      |       |      |

|       |      |       |     |         |     |     |      |        |
|-------|------|-------|-----|---------|-----|-----|------|--------|
| PQnod | 0    | MKY   | 6kV | SBV.T01 | 0.0 | 0.0 | 6.35 | -11.40 |
|       | elSn | NetGr |     |         |     |     |      | 6.30   |
|       | 1    |       |     |         |     |     |      |        |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MKY	6kV	B3T01cmp	1.0	-0.6	103.4	1842
		-0.026	6kV	SBV.T01				1842
APD		-0.111						
PVnod	0	MKY	6kV	SBV.TG3	-1.0	0.6	6.38	-11.91
	elSn	NetGr						6.30
	1							

Gen	F	MKY	6kV	GEN.3cmp	-1.0	0.6	103.4	999
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlcb	0	MWVEDENI	110kV	5573_MAD	1.9	1.7	12.6	450
		0.000						
		MSVI	110kV	SBV.T114				450
APD		0.039						
ohlcb	0	MWVEDENI	110kV	_567_MAD	-5.2	-0.1	25.4	450
		-0.012						
		MVST	110kV	SBB				450
APD		1.187						
ohlcb	0	MWVEDENI	110kV	5509_MAD	28.9	2.9	141.7	450
		-0.065						
		MMLE	110kV	SBA1				450
APD		0.092						
BBC	0	MMAD	110kV	SP1cmp	-25.6	-4.5	126.8	9999
		0.000						
		MMAD	110kV	SBB				9999
APD		0.000						

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PQnod	O	MMAD	110kV	SBA	0.0	0.0	118.3	-4.23
elSn		NetGr						110.0

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								

ohlcb	0	MWVEDENI	110kV	5572_MAD	3.0	2.8	19.9	450
		0.000						
		MSVI	110kV	SBV.T115				450
APD		0.035						
ohlcb	0	MWVEDENI	110kV	5574_MAD	-19.2	-4.4	96.2	450
		-0.071						
		MSLU	110kV	SBA1				450
APD		0.406						
ohlcb	0	MWVEDENI	110kV	5503_MAD	32.7	3.1	160.3	450
		-0.094						
		MOKC	110kV	SBC1				450
APD		0.062						
BBC	0	MMAD	110kV	SP1cmp	25.6	4.5	126.8	9999
		0.000						
		MMAD	110kV	SBA				9999
APD		0.000						
Trafo	0	MMAD	110kV	T101_cmp	-20.4	-3.0	100.5	131
13		-0.081						
		MMAD	22kV	SBA				210
APD		-2.033						
Trafo	0	MMAD	110kV	T102_cmp	-21.7	-2.9	106.8	210
13		-0.099						
		MMAD	22kV	SBB3				210
APD		-1.744						

E PQnod	O	MMAD	110kV	SBB	-0.0	0.0	118.3	-4.23
elSn		NetGr						110.0

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								

Trafo	0	MMAD	110kV	T101_cmp	20.3	1.0	518.9	656
13		-0.081						
		MMAD	110kV	SBB				1050
APD		-2.033						

PQnod	O	MMAD	22kV	SBA	-20.3	-1.0	22.62	-9.88
elSn		NetGr						22.00

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 Load O MMAD 22kV SBALOAD -20.3 -1.0 518.9 2756
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=====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 (nodes: St1 Flg Ploss Busbar) Ilim/Vn  
 (nodes: St2 Flg Qloss)

Trafo 13 O MMAD 110kV T102\_cmp 21.6 1.2 550.2 1050  
 -0.099 110kV SBB 1050  
 APD MMAD -1.744

PQnod 1 O MMAD 22kV SBB3 -21.6 -1.2 22.70 -7.97  
 elSn NetGr 22.00

Load O MMAD 22kV SBB1LOAD -10.8 -0.6 275.1 2756  
 Load O MMAD 22kV SBB2LOAD -10.8 -0.6 275.1 2756  
 ~~~~~

=====
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi
 (nodes: St1 Flg Ploss Busbar) Ilim/Vn
 (nodes: St2 Flg Qloss)

OhlCb 0 MWVEDENI 110kV 5504_MLE 36.5 3.9 178.6 450
 -0.021 110kV SBC1 450
 APD MOKC 0.000
 OhlCb 0 MWVEDENI 110kV 5509_MAD -29.0 -2.8 141.5 450
 -0.065 110kV SBA 450
 APD MMAD 0.092

PQnod 1 O MMLE 110kV SBA1 -7.5 -1.1 118.7 -3.96
 elSn NetGr 110.0

Load F MMLE 110kV T101LOAD -7.5 -1.1 37.1 131
 ~~~~~

=====  
 Type Nm Station VL Circuit Pcalc Qcalc I/Vcalc In/Phi  
 (nodes: St1 Flg Ploss Busbar) Ilim/Vn  
 (nodes: St2 Flg Qloss)

OhlCb 0 MWVEDENI 110kV \_547\_NAD -20.2 -6.4 103.3 450  
 -0.172 110kV SBA1 450  
 APD MPNV 0.911

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|       |   |          |       |          |      |      |       |     |
|-------|---|----------|-------|----------|------|------|-------|-----|
| ohlCb | O | MWVEDENI | 110kV | 5540_KUN | 21.0 | -5.6 | 106.0 | 450 |
|       |   | -0.033   |       |          |      |      |       |     |
| APD   |   | MKUN     | 110kV | SBA1     |      |      |       | 450 |
|       |   | 0.185    |       |          |      |      |       |     |

|       |      |       |       |      |      |      |       |       |
|-------|------|-------|-------|------|------|------|-------|-------|
| PQnod | O    | MNA_D | 110kV | SBA1 | -0.8 | 12.0 | 118.2 | -5.79 |
|       | elSn | NetGr |       |      |      |      |       |       |
|       | 1    |       |       |      |      |      |       | 110.0 |

|      |   |       |       |          |      |      |      |    |
|------|---|-------|-------|----------|------|------|------|----|
| Load | F | MNA_D | 110kV | T102LOAD | -0.9 | 6.8  | 33.5 | 52 |
| Load | F | MNA_D | 110kV | T1LOAD   | 0.1  | -6.8 | 33.2 | 52 |

| Type    | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |       | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |       |         |    |         |       |       |         |         |
| St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |          |       |          |       |      |       |     |
|-------|---|----------|-------|----------|-------|------|-------|-----|
| ohlCb | O | MWVEDENI | 110kV | 5575_NZD | 34.2  | 5.9  | 171.9 | 450 |
|       |   | -0.450   |       |          |       |      |       |     |
| APD   |   | MOKC     | 110kV | SBB1     |       |      |       | 450 |
|       |   | 0.130    |       |          |       |      |       |     |
| ohlCb | O | MWVEDENI | 110kV | 5577_NZD | -32.8 | -4.6 | 164.3 | 450 |
|       |   | -0.237   |       |          |       |      |       |     |
| APD   |   | MPRT     | 110kV | SBA      |       |      |       | 450 |
|       |   | 0.112    |       |          |       |      |       |     |

|       |      |       |       |      |      |      |       |       |
|-------|------|-------|-------|------|------|------|-------|-------|
| PQnod | O    | MNZ_D | 110kV | SBA1 | -1.3 | -1.3 | 116.4 | -6.11 |
|       | elSn | NetGr |       |      |      |      |       |       |
|       | 1    |       |       |      |      |      |       | 110.0 |

|      |   |       |       |          |      |      |     |    |
|------|---|-------|-------|----------|------|------|-----|----|
| Load | F | MNZ_D | 110kV | T101LOAD | -1.2 | -0.6 | 6.5 | 52 |
| Load | F | MNZ_D | 110kV | T111LOAD | -0.2 | -0.7 | 3.7 | 52 |

| Type    | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg |       | Ploss   |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |       |         |    |         |       |       |         |         |
| St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |        |       |          |     |      |       |      |
|-------|---|--------|-------|----------|-----|------|-------|------|
| Trafo | F | MOKC   | 10kV  | T401_cmp | 8.9 | -8.3 | 686.9 | 5774 |
|       |   | -0.002 |       |          |     |      |       |      |
| APD   |   | MOKC   | 110kV | SBV.T401 |     |      |       | 5774 |
|       |   | -0.426 |       |          |     |      |       |      |

|       |      |       |      |        |      |     |       |        |
|-------|------|-------|------|--------|------|-----|-------|--------|
| PQnod | O    | MOKC  | 10kV | SBT401 | -8.9 | 8.3 | 10.24 | -10.34 |
|       | elSn | NetGr |      |        |      |     |       |        |
|       | 1    |       |      |        |      |     |       | 10.00  |

|      |   |      |      |          |      |     |       |      |
|------|---|------|------|----------|------|-----|-------|------|
| Load | O | MOKC | 10kV | SBT401LO | -8.9 | 8.3 | 686.9 | 5774 |
|------|---|------|------|----------|------|-----|-------|------|

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| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Flg | Station<br>Ploss<br>Qloss            | VL             | Circuit<br>Busbar)   | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|---------------------------------------|-----------|--------------------------------------|----------------|----------------------|-------|-------|---------|-------------------|
| Trafo                                 | F         | MOKC<br>-0.000<br>MOKC<br>-0.022     | 10kV<br>110kV  | T402_cmp<br>SBV.T402 | -2.6  | 0.9   | 154.7   | 5774<br>5774      |
| APD                                   |           |                                      |                |                      |       |       |         |                   |
| PQnod<br>elSn                         | O         | MOKC<br>NetGr                        | 10kV           | SBT402               | 2.6   | -0.9  | 10.23   | -11.15<br>10.00   |
| 1                                     |           |                                      |                |                      |       |       |         |                   |
| Load                                  | O         | MOKC                                 | 10kV           | SBT402LO             | 2.6   | -0.9  | 154.7   | 5774              |
| ~~~~~                                 |           |                                      |                |                      |       |       |         |                   |
| ~~~~~                                 |           |                                      |                |                      |       |       |         |                   |
| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Flg | Station<br>Ploss<br>Qloss            | VL             | Circuit<br>Busbar)   | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| Trafo                                 | F         | MOKC<br>0.000<br>MOKC<br>0.000       | 10kV<br>110kV  | T403_cmp<br>SBV.T403 | 0.0   | -0.0  | 0.0     | 5774<br>5774      |
| APD                                   |           |                                      |                |                      |       |       |         |                   |
| PQnod<br>elSn                         | F         | MOKC<br>NetGr                        | 10kV           | T403_cmp             | -0.0  | 0.0   | 10.42   | -9.83<br>10.00    |
| 1                                     |           |                                      |                |                      |       |       |         |                   |
| ~~~~~                                 |           |                                      |                |                      |       |       |         |                   |
| ~~~~~                                 |           |                                      |                |                      |       |       |         |                   |
| Type<br>St1 Flg<br>(nodes:<br>St2 Flg | Nm<br>Flg | Station<br>Ploss<br>Qloss            | VL             | Circuit<br>Busbar)   | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
| OhlCb                                 | O         | MWVEDENI<br>-0.638<br>MUBR<br>-0.828 | 110kV<br>110kV | 5570_OKC<br>SBB      | -48.9 | -9.8  | 242.1   | 450<br>450        |
| APD                                   |           |                                      |                |                      |       |       |         |                   |
| OhlCb                                 | O         | MWVEDENI<br>-0.638<br>MUBR<br>-0.828 | 110kV<br>110kV | 5571_OKC<br>SBB      | -48.9 | -9.8  | 242.1   | 450<br>450        |
| APD                                   |           |                                      |                |                      |       |       |         |                   |
| OhlCb                                 | O         | MWVEDENI<br>-0.716<br>MKY<br>-0.150  | 110kV<br>110kV | _545_KY_<br>SBA1     | -38.3 | -4.7  | 187.1   | 450<br>450        |
| APD                                   |           |                                      |                |                      |       |       |         |                   |
| OhlCb                                 | O         | MWVEDENI<br>-0.308<br>MKUN           | 110kV<br>110kV | _546_KUN<br>SBA1     | -33.0 | 3.3   | 160.8   | 450<br>450        |

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|     |       |   |                                           |       |          |       |      |       |      |
|-----|-------|---|-------------------------------------------|-------|----------|-------|------|-------|------|
| APD | Trafo | F | 0.258<br>MOKC<br>-0.052<br>MOKC<br>23.014 | 110kV | T402_cmp | 169.1 | 21.0 | 826.8 | 1837 |
| APD |       |   |                                           | 110kV | SBV.T402 |       |      |       | 1837 |

|       |      |       |       |      |     |     |       |       |
|-------|------|-------|-------|------|-----|-----|-------|-------|
| PQnod | O    | MOKC  | 110kV | SBA1 | 0.0 | 0.0 | 119.0 | -3.83 |
|       | elSn | NetGr |       |      |     |     |       | 110.0 |
| 1     |      |       |       |      |     |     |       |       |

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| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg | Ploss |          |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |       |          |       |          |       |       |         |         |
| St2 Flg | Qloss |          |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5575_NZD | -34.6 | -5.8  | 170.6   | 450     |
|         |       | -0.450   |       |          |       |       |         |         |
|         |       | MNZ_D    | 110kV | SBA1     |       |       |         | 450     |
| APD     |       | 0.130    |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | _559_CHR | -4.1  | 1.1   | 20.7    | 450     |
|         |       | -0.005   |       |          |       |       |         |         |
|         |       | MCHR     | 110kV | SBA1     |       |       |         | 450     |
| APD     |       | 1.014    |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | _573_OKC | -15.8 | -1.9  | 77.3    | 450     |
|         |       | -0.075   |       |          |       |       |         |         |
|         |       | MRYC     | 110kV | SBA1     |       |       |         | 450     |
| APD     |       | 1.033    |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5517_OKC | -19.4 | -3.3  | 95.8    | 420     |
|         |       | -0.106   |       |          |       |       |         |         |
|         |       | MUHD     | 110kV | SBA1     |       |       |         | 420     |
| APD     |       | 0.576    |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5519_FA_ | -1.7  | 0.6   | 8.7     | 450     |
|         |       | -0.000   |       |          |       |       |         |         |
|         |       | MFA      | 110kV | SBA1     |       |       |         | 450     |
| APD     |       | 0.287    |       |          |       |       |         |         |
| BBC     | O     | MOKC     | 110kV | KP1cmp   | -82.3 | 17.1  | 408.8   | 9999    |
|         |       | 0.000    |       |          |       |       |         |         |
|         |       | MOKC     | 110kV | SBC1     |       |       |         | 9999    |
| APD     |       | 0.000    |       |          |       |       |         |         |
| Trafo   | F     | MOKC     | 110kV | T403_cmp | 157.9 | -7.8  | 768.9   | 1837    |
|         |       | -0.043   |       |          |       |       |         |         |
|         |       | MOKC     | 110kV | SBV.T403 |       |       |         | 1837    |
| APD     |       | 16.663   |       |          |       |       |         |         |

|       |      |       |       |      |     |     |       |       |
|-------|------|-------|-------|------|-----|-----|-------|-------|
| PQnod | O    | MOKC  | 110kV | SBB1 | 0.0 | 0.0 | 118.7 | -3.86 |
|       | elSn | NetGr |       |      |     |     |       | 110.0 |
| 1     |      |       |       |      |     |     |       |       |

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| Type    | Nm    | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg | Ploss |          |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |       |          |       |          |       |       |         |         |
| St2 Flg | Qloss |          |       |          |       |       |         |         |
| OhlCb   | O     | MWVEDENI | 110kV | 5576_OKC | -44.5 | -7.0  | 218.9   | 450     |
|         |       | -0.397   |       |          |       |       |         |         |

| UCH - výpadek vedení V5506 a V5501, V5502 |      |          |       |          |       |       |       |       |
|-------------------------------------------|------|----------|-------|----------|-------|-------|-------|-------|
| APD                                       |      | MZDO     | 110kV | SBA1     |       |       |       | 450   |
| ohlcb                                     | O    | -0.423   |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | 5503_MAD | -32.8 | -3.0  | 160.2 | 450   |
|                                           |      | -0.094   |       |          |       |       |       |       |
| APD                                       |      | MMAD     | 110kV | SBB      |       |       |       | 450   |
| ohlcb                                     | O    | 0.062    |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | 5504_MLE | -36.5 | -3.9  | 178.6 | 450   |
|                                           |      | -0.021   |       |          |       |       |       |       |
| APD                                       |      | MMLE     | 110kV | SBA1     |       |       |       | 450   |
| ohlcb                                     | O    | 0.000    |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | 5505_OKC | -37.2 | -8.7  | 185.8 | 450   |
|                                           |      | -0.048   |       |          |       |       |       |       |
| APD                                       |      | MOK_D    | 110kV | SBA1     |       |       |       | 450   |
| ohlcb                                     | O    | -0.003   |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | _550_HUN | -32.1 | -6.4  | 159.3 | 450   |
|                                           |      | -0.210   |       |          |       |       |       |       |
| APD                                       |      | MHUN     | 110kV | SBA1     |       |       |       | 450   |
| ohlcb                                     | O    | 0.139    |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | 5516_OKC | -19.4 | -3.3  | 95.8  | 420   |
|                                           |      | -0.106   |       |          |       |       |       |       |
| APD                                       |      | MUHD     | 110kV | SBA1     |       |       |       | 420   |
| ohlcb                                     | O    | 0.576    |       |          |       |       |       |       |
|                                           |      | MWVEDENI | 110kV | 5518_FA_ | -1.7  | 0.6   | 8.7   | 450   |
|                                           |      | -0.000   |       |          |       |       |       |       |
| APD                                       |      | MFA      | 110kV | SBA1     |       |       |       | 450   |
| BBC                                       | O    | 0.287    |       |          |       |       |       |       |
|                                           |      | MOKC     | 110kV | KP1cmp   | 82.3  | -17.1 | 408.8 | 9999  |
|                                           |      | 0.000    |       |          |       |       |       |       |
| APD                                       |      | MOKC     | 110kV | SBB1     |       |       |       | 9999  |
| Trafo                                     | F    | 0.000    |       |          |       |       |       |       |
|                                           |      | MOKC     | 110kV | T401_cmp | 121.9 | 48.8  | 638.6 | 1837  |
|                                           |      | -0.028   |       |          |       |       |       |       |
| APD                                       |      | MOKC     | 110kV | SBV.T401 |       |       |       | 1837  |
|                                           |      | 11.903   |       |          |       |       |       |       |
| -----                                     |      |          |       |          |       |       |       |       |
| E PQnod                                   | O    | MOKC     | 110kV | SBC1     | -0.0  | -0.0  | 118.7 | -3.86 |
|                                           | elSn | NetGr    |       |          |       |       |       |       |
|                                           |      |          |       |          |       |       |       | 110.0 |
|                                           | 1    |          |       |          |       |       |       |       |
| ~~~~~                                     |      |          |       |          |       |       |       |       |
| ~~~~~                                     |      |          |       |          |       |       |       |       |

| Type    | Nm   | Station | VL    | Circuit  | Pcalc  | Qcalc | I/Vcalc | In/Phi  |
|---------|------|---------|-------|----------|--------|-------|---------|---------|
| St1 Flg |      | Ploss   |       |          |        |       |         |         |
| (nodes: |      |         |       | Busbar)  |        |       |         | Ilim/Vn |
| St2 Flg |      | Qloss   |       |          |        |       |         |         |
| Trafo   | F    | MOKC    | 400kV | T401_cmp | 130.8  | 29.0  | 671.6   | 1837    |
|         | 7    | -0.164  |       |          |        |       |         |         |
|         |      | MOKC    | 400kV | SBA      |        |       |         | 1837    |
| APD     |      | -21.669 |       |          |        |       |         |         |
| Trafo   | F    | MOKC    | 10kV  | T401_cmp | -8.9   | 7.9   | 59.6    | 525     |
|         |      | -0.002  |       |          |        |       |         |         |
| APD     |      | MOKC    | 10kV  | SBT401   |        |       |         | 525     |
| Trafo   | F    | -0.426  |       |          |        |       |         |         |
|         |      | MOKC    | 110kV | T401_cmp | -121.9 | -36.9 | 638.6   | 1837    |
|         |      | -0.028  |       |          |        |       |         |         |
| APD     |      | MOKC    | 110kV | SBC1     |        |       |         | 1837    |
|         |      | 11.903  |       |          |        |       |         |         |
| -----   |      |         |       |          |        |       |         |         |
| PQnod   | O    | MOKC    | 110kV | SBV.T401 | 0.0    | 0.0   | 115.2   | -8.84   |
|         | elSn | NetGr   |       |          |        |       |         |         |
|         |      |         |       |          |        |       |         | 110.0   |
|         | 1    |         |       |          |        |       |         |         |

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| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc  | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|--------|-------|---------|-------------------|
| Trafo<br>6                    | F                | MOKC<br>-0.174            | 400kV | T402_cmp           | 166.6  | -1.1  | 814.0   | 1837              |
|                               |                  | MOKC<br>-33.517           | 400kV | SBB                |        |       |         | 1312              |
| APD<br>Trafo                  | F                | MOKC<br>-0.000            | 10kV  | T402_cmp           | 2.6    | -0.9  | 13.4    | 525               |
|                               |                  | MOKC<br>-0.022            | 10kV  | SBT402             |        |       |         | 525               |
| APD<br>Trafo                  | F                | MOKC<br>-0.052            | 110kV | T402_cmp           | -169.2 | 2.0   | 826.8   | 1837              |
|                               |                  | MOKC<br>23.014            | 110kV | SBA1               |        |       |         | 1837              |
| PQnod<br>elSn                 | O                | MOKC<br>NetGr             | 110kV | SBV.T402           | 0.0    | -0.0  | 118.1   | -11.59            |
| 1                             |                  |                           |       |                    |        |       |         | 110.0             |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL    | Circuit<br>Busbar) | Pcalc  | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|-------|--------------------|--------|-------|---------|-------------------|
| Trafo<br>5                    | F                | MOKC<br>-0.154            | 400kV | T403_cmp           | 158.0  | -24.5 | 768.9   | 1837              |
|                               |                  | MOKC<br>-26.391           | 400kV | SBA                |        |       |         | 1312              |
| APD<br>Trafo                  | F                | MOKC<br>0.000             | 10kV  | T403_cmp           | -0.0   | 0.0   | 0.0     | 525               |
|                               |                  | MOKC<br>0.000             | 10kV  | T403_cmp           |        |       |         | 525               |
| APD<br>Trafo                  | F                | MOKC<br>-0.043            | 110kV | T403_cmp           | -158.0 | 24.5  | 768.9   | 1837              |
|                               |                  | MOKC<br>16.663            | 110kV | SBB1               |        |       |         | 1837              |
| PQnod<br>elSn                 | O                | MOKC<br>NetGr             | 110kV | SBV.T403           | 0.0    | -0.0  | 120.0   | -9.83             |
| 1                             |                  |                           |       |                    |        |       |         | 110.0             |

| Type<br>St1<br>(nodes:<br>St2 | Nm<br>Flg<br>Flg | Station<br>Ploss<br>Qloss | VL | Circuit<br>Busbar) | Pcalc | Qcalc | I/Vcalc | In/Phi<br>Ilim/Vn |
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|
|-------------------------------|------------------|---------------------------|----|--------------------|-------|-------|---------|-------------------|

| UCH - výpadek vedení V5506 a V5501, V5502 |   |          |       |          |        |       |       |      |
|-------------------------------------------|---|----------|-------|----------|--------|-------|-------|------|
| ohlCb                                     | F | MWVEDENI | 400kV | 417_OKC  | 40.1   | -24.1 | 65.0  | 1200 |
|                                           |   | -0.044   |       |          |        |       |       |      |
|                                           |   | MSO      | 400kV | SBV.KP2  |        |       |       | 1200 |
| APD                                       |   | 40.162   |       |          |        |       |       |      |
| BBC                                       | F | MOKC     | 400kV | KP1cmp   | 249.0  | 76.7  | 361.7 | 9999 |
|                                           |   | 0.000    |       |          |        |       |       |      |
|                                           |   | MOKC     | 400kV | SBB      |        |       |       | 9999 |
|                                           |   | 0.000    |       |          |        |       |       |      |
| DEF                                       |   | MOKC     | 400kV | T401_cmp | -131.0 | -50.7 | 195.0 | 505  |
| Trafo                                     | F | -0.164   |       |          |        |       |       |      |
| 7                                         |   | MOKC     | 110kV | SBV.T401 |        |       |       | 505  |
|                                           |   | -21.669  |       |          |        |       |       |      |
| APD                                       |   | MOKC     | 400kV | T403_cmp | -158.1 | -1.9  | 219.5 | 505  |
| Trafo                                     | F | -0.154   |       |          |        |       |       |      |
| 5                                         |   | MOKC     | 110kV | SBV.T403 |        |       |       | 361  |
|                                           |   | -26.391  |       |          |        |       |       |      |
| APD                                       |   |          |       |          |        |       |       |      |

|       |   |       |       |     |     |     |       |       |
|-------|---|-------|-------|-----|-----|-----|-------|-------|
| PQnod | F | MOKC  | 400kV | SBA | 0.0 | 0.0 | 415.9 | -0.33 |
|       |   | elSn  |       |     |     |     |       |       |
|       |   | NetGr |       |     |     |     |       | 400.0 |
| 1     |   |       |       |     |     |     |       |       |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
BBC	F	MOKC	400kV	KP1cmp	-249.0	-76.7	361.7	9999
		0.000						
		MOKC	400kV	SBA				9999
		0.000						
DEF		MOKC	400kV	T402_cmp	-166.7	-32.4	235.8	505
Trafo	F	-0.174						
6		MOKC	110kV	SBV.T402				361
		-33.517						
APD								

E PVnod	F	MOKC	400kV	SBB	415.8	109.1	415.9	-0.33
		elSn						
		NetGr						400.0
1								

Inj	F	MOKC	400kV	INJ.V418	415.8	109.1	596.7	28868
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
ohlCb	O	MWVEDENI	110kV	5505_OKC	37.2	8.7	186.0	450
		-0.048						
		MOKC	110kV	SBC1				450
		-0.003						
APD		MWVEDENI	110kV	5508_BAR	-35.9	-9.0	180.2	450
ohlCb	O	-0.020						
		MBAR	110kV	SBA1				450
		-0.002						
APD								

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PQnod	O	MOK_D	110kV	SBA1	-1.3	0.3	118.5	-4.02
elSn	NetGr							110.0
1								

Load	F	MOK_D	110kV	T101LOAD	-1.3	0.3	6.3	52

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:	St2 Flg	Qloss						
OhlCb	0	MWVEDENI	110kV	_542_HO_	-1.9	-5.2	27.3	450
		-0.003						
		MHO	110kV	SBB1				450
		0.348						
APD OhlCb	0	MWVEDENI	110kV	_547_NAD	20.0	7.3	105.5	450
		-0.172						
		MNA_D	110kV	SBA1				450
		0.911						
APD Trafo	0	MPNV	110kV	T101_cmp	-18.1	-2.1	90.2	226
13		-0.083						
		MPNV	22kV	SBA1				226
		-1.128						

PQnod	O	MPNV	110kV	SBA1	0.0	-0.0	116.5	-6.80
elSn	NetGr							110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:	St2 Flg	Qloss						
Trafo	0	MPNV	110kV	T101_cmp	18.0	1.0	464.7	1128
13		-0.083						
		MPNV	110kV	SBA1				1128
		-1.128						

PQnod	O	MPNV	22kV	SBA1	-18.0	-1.0	22.40	-9.70
elSn	NetGr							22.00
1								

Load	O	MPNV	22kV	SBA1LOAD	-9.0	-0.5	232.4	2099
Load	O	MPNV	22kV	SBA2LOAD	-9.0	-0.5	232.4	2099

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi

UCH - výpadek vedení V5506 a V5501, V5502

St1 Flg (nodes: St2 Flg	Ploss Qloss	Busbar)	Ilim/Vn					
OhlCb	0	MWVEDENI 110kV -0.237 MNZ_D 110kV 0.112	5577_NZD	32.6	4.7	164.9	450	
APD OhlCb	0	MWVEDENI 110kV -0.358 MZDO 110kV 0.284	SBA1				450	
APD OhlCb	0	MWVEDENI 110kV -0.028 MKNC 110kV 0.943	5578_PRT	31.3	5.3	159.0	450	
APD OhlCb	0	MWVEDENI 110kV -0.000 MWVEDENI 110kV 1.309	5594_KNC	-9.3	-1.4	46.9	450	
APD OhlCb	0	MPRT 110kV -0.089 MPRT 22kV -3.091	_556_PRT	-0.0	1.3	6.6	450	
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 22kV -1.823	_556_PRT				450	
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 22kV -1.823	T103_cmp	-31.5	-5.5	160.2	210	
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 22kV -1.823	SBB1				210	
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 22kV -1.823	T101_cmp	-23.1	-4.4	117.9	210	
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 22kV -1.823	SBA1				210	

PQnod	0	MPRT	110kV	SBA	0.0	-0.0	115.2	-7.38
elSn		NetGr						110.0

1

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 12	0	MPRT 110kV -0.110 MPRT 110kV -1.823	110kV	T101_cmp	23.0	2.6	595.9	1050
APD Trafo 12	0	MPRT 110kV -0.110 MPRT 110kV -1.823	110kV	SBA				1050

PQnod	0	MPRT	22kV	SBA1	-23.0	-2.6	22.42	-11.22
elSn		NetGr						22.00

1

Load	0	MPRT	22kV	SBA1LOAD	-11.5	-1.3	298.0	2756
Load	0	MPRT	22kV	SBA2LOAD	-11.5	-1.3	298.0	2756

Type St1 Flg (nodes: St2 Flg	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
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UCH - výpadek vedení V5506 a V5501, V5502

Trafo	0	MPRT	110kV	T103_cmp	31.4	2.4	811.4	1050
12		-0.089						
APD		MPRT	110kV	SBA				1050
		-3.091						
PQnod	0	MPRT	22kV	SBB1	-31.4	-2.4	22.41	-12.80
eISn		NetGr						22.00
1								
Load	0	MPRT	22kV	SBB1LOAD	-15.7	-1.2	405.7	2756
Load	0	MPRT	22kV	SBB2LOAD	-15.7	-1.2	405.7	2756

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								
ohlcb	0	MWVEDENI	110kV	_573_OKC	15.7	2.9	78.2	450
		-0.075						
APD		MOKC	110kV	SBB1				450
		1.033						
Trafo	0	MRYC	110kV	T101_cmp	-15.7	-2.9	78.2	131
13		-0.102						
APD		MRYC	22kV	SB.A1				131
		-1.326						
PQnod	0	MRYC	110kV	SBA1	-0.0	-0.0	117.9	-4.60
eISn		NetGr						110.0
1								

Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:		Qloss						
St2 Flg								
Trafo	0	MRYC	110kV	T101_cmp	15.6	1.6	402.5	656
13		-0.102						
APD		MRYC	110kV	SBA1				656
		-1.326						
PQnod	0	MRYC	22kV	SB.A1	-15.6	-1.6	22.49	-8.81
eISn		NetGr						22.00
1								
Load	0	MRYC	22kV	SBA1LOAD	-7.8	-0.8	201.3	1312
Load	0	MRYC	22kV	SBA2LOAD	-7.8	-0.8	201.3	1312

UCH - výpadek vedení V5506 a V5501, V5502

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.447	110kV	5510_SLM	29.5	9.4	156.2	350
		MUBR	110kV	SBB				350
APD Trafo 11	0	MSLM -0.165 -0.080	110kV	T101_cmp	-29.5	-9.4	156.2	210
APD		MSLM -2.856	22kV	SBA1				210
PQnod elSn	0	MSLM NetGr	110kV	SBA1	-0.0	0.0	114.3	-6.77 110.0
1								

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 11	0	MSLM -0.080	110kV	T101_cmp	29.4	6.5	776.3	1050
APD		MSLM -2.856	110kV	SBA1				1050
PQnod elSn	0	MSLM NetGr	22kV	SBA1	-29.4	-6.5	22.39	-11.88 22.00
1								
Load	0	MSLM	22kV	SBA1LOAD	-29.4	-6.5	776.3	1706

Type St1 (nodes: St2	Nm Flg Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
OhlCb	0	MWVEDENI -0.071	110kV	5574_MAD	19.1	4.8	96.8	450
		MMAD	110kV	SBB				450
APD OhlCb	0	0.406 MWVEDENI -0.009	110kV	_568_VST	5.2	2.2	27.6	450
APD		MVST	110kV	SBB				450
Trafo 12	0	0.835 MSLU -0.119	110kV	T101_cmp	-24.3	-7.0	124.2	210
APD		MSLU -2.004	22kV	SBA1				210

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PQnod	O	MSLU	110kV	SBA1	0.0	-0.0	117.7	-4.63
elSn	NetGr							110.0
1								

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| Type    | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg | Ploss |         |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |       |         |    |         |       |       |         |         |
| St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |        |       |          |      |     |       |      |
|-------|---|--------|-------|----------|------|-----|-------|------|
| Trafo | 0 | MSLU   | 110kV | T101_cmp | 24.2 | 5.0 | 627.1 | 1050 |
| 12    |   | -0.119 | 110kV | SBA1     |      |     |       | 1050 |
| APD   |   | MSLU   |       |          |      |     |       |      |
|       |   | -2.004 |       |          |      |     |       |      |

| PQnod | O     | MSLU | 22kV | SBA1 | -24.2 | -5.0 | 22.75 | -8.52 |
|-------|-------|------|------|------|-------|------|-------|-------|
| elSn  | NetGr |      |      |      |       |      |       | 22.00 |
| 1     |       |      |      |      |       |      |       |       |

|      |   |      |      |          |       |      |       |      |
|------|---|------|------|----------|-------|------|-------|------|
| Load | 0 | MSLU | 22kV | SBA1LOAD | -12.1 | -2.5 | 313.5 | 1706 |
| Load | 0 | MSLU | 22kV | SBA2LOAD | -12.1 | -2.5 | 313.5 | 1706 |

| Type    | Nm    | Station | VL | Circuit | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|-------|---------|----|---------|-------|-------|---------|---------|
| St1 Flg | Ploss |         |    | Busbar) |       |       |         | Ilim/Vn |
| (nodes: |       |         |    |         |       |       |         |         |
| St2 Flg | Qloss |         |    |         |       |       |         |         |

|       |   |          |       |          |      |      |      |     |
|-------|---|----------|-------|----------|------|------|------|-----|
| OhlCb | 0 | MWVEDENI | 110kV | 5573_MAD | -1.9 | -1.7 | 12.5 | 450 |
|       |   | 0.000    |       |          |      |      |      |     |
| APD   |   | MMAD     | 110kV | SBA      |      |      |      | 450 |
|       |   | 0.039    |       |          |      |      |      |     |
| Trafo | F | MSVI     | 110kV | T114_cmp | 1.9  | 1.7  | 12.5 | 131 |
| 15    |   | -0.038   |       |          |      |      |      |     |
| APD   |   | MSVI     | 6kV   | SBA      |      |      |      | 131 |
|       |   | -0.094   |       |          |      |      |      |     |

| PQnod | O     | MSVI | 110kV | SBV.T114 | -0.0 | -0.0 | 118.3 | -4.23 |
|-------|-------|------|-------|----------|------|------|-------|-------|
| elSn  | NetGr |      |       |          |      |      |       | 110.0 |
| 1     |       |      |       |          |      |      |       |       |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg	Ploss			Busbar)				Ilim/Vn
(nodes:								
St2 Flg	Qloss							

OhlCb	0	MWVEDENI	110kV	5572_MAD	-3.0	-2.8	19.8	450
		0.000						

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APD		MMAD	110kV	SBB				450
Trafo	F	0.035						
15		MSVI	110kV	T115_cmp	3.0	2.8	19.8	210
		-0.029						
APD		MSVI	6kV	SBA				210
		-0.276						

PQnod	O	MSVI	110kV	SBV.T115	0.0	0.0	118.3	-4.23
	elSn	NetGr						
								110.0
1								
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	F	MSVI	110kV	T114_cmp	-2.0	-1.8	251.0	2291
15		-0.038						
		MSVI	110kV	SBV.T114				2291
		-0.094						
APD		MSVI	110kV	T115_cmp	-3.0	-3.0	402.8	3666
Trafo	F	-0.029						
15		MSVI	110kV	SBV.T115				3666
		-0.276						
APD								

PVnod	F	MSVI	6kV	SBA	5.0	4.8	6.11	-3.70
	elSn	NetGr						
								6.30
1								

Load	F	MSVI	6kV	SBALOAD	-17.5	-5.6	1736.7	9622
Gen	F	MSVI	6kV	GEN31cmp	18.0	5.0	1760.5	751
Gen	F	MSVI	6kV	GEN6cmp	4.5	5.5	669.7	751
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
OhlCb	O	MWVEDENI	110kV	5570_OKC	48.3	9.0	243.1	450
		-0.638						
		MOKC	110kV	SBA1				450
		-0.828						
APD		MWVEDENI	110kV	5571_OKC	48.3	9.0	243.1	450
OhlCb	O	-0.638						
		MOKC	110kV	SBA1				450
		-0.828						
APD		MWVEDENI	110kV	_543_UBR	-25.9	0.7	128.2	450
OhlCb	O	-0.137						
		MVKA	110kV	SBA3				450
		0.347						
APD		MWVEDENI	110kV	5510_SLM	-29.9	-9.2	154.9	350
OhlCb	O	-0.447						
		MSLM	110kV	SBA1				350
		0.165						
APD								

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Trafo	0	MUBR	110kV	T101_cmp	-22.7	-6.2	116.5	210	
12		-0.113							
		MUBR	22kV	SBA1				210	
APD		-1.772							
Trafo	0	MUBR	110kV	T102_cmp	-18.0	-3.4	90.9	210	
13		-0.049							
		MUBR	22kV	SBB1				210	
APD		-0.987							

PQnod	0	MUBR	110kV	SBB	0.0	-0.0	116.7	-5.77	
elSn		NetGr							
1								110.0	
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=====									
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
St1 Flg		Ploss		Busbar)				Ilim/Vn	
(nodes:									
St2 Flg		Qloss							
=====									
Trafo	0	MUBR	110kV	T101_cmp	22.6	4.4	588.3	1050	
12		-0.113							
		MUBR	110kV	SBB				1050	
APD		-1.772							
-----									
PQnod	0	MUBR	22kV	SBA1	-22.6	-4.4	22.60	-9.52	
elSn		NetGr							
1								22.00	
-----									
Load	0	MUBR	22kV	SBA1LOAD	-11.3	-2.2	294.2	2099	
Load	0	MUBR	22kV	SBA2LOAD	-11.3	-2.2	294.2	2099	
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=====									
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
St1 Flg		Ploss		Busbar)				Ilim/Vn	
(nodes:									
St2 Flg		Qloss							
=====									
Trafo	0	MUBR	110kV	T102_cmp	18.0	2.4	468.7	1050	
13		-0.049							
		MUBR	110kV	SBB				1050	
APD		-0.987							

PQnod	0	MUBR	22kV	SBB1	-18.0	-2.4	22.37	-8.82	
elSn		NetGr							
1								22.00	

Load	0	MUBR	22kV	SBB1LOAD	-9.0	-1.2	234.3	2099	
Load	0	MUBR	22kV	SBB2LOAD	-9.0	-1.2	234.3	2099	
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=====									

UCH - výpadek vedení V5506 a V5501, V5502									
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
(nodes:	St1 Flg	Ploss		Busbar)				Ilim/Vn	
St2 Flg	Qloss								
=====									
OhlCb	0	MWVEDENI	110kV	5516_OKC	19.3	3.9	96.5	420	
		-0.106							
		MOKC	110kV	SBC1				420	
APD		0.576							
OhlCb	0	MWVEDENI	110kV	5517_OKC	19.3	3.9	96.5	420	
		-0.106							
		MOKC	110kV	SBB1				420	
APD		0.576							
Trafo	0	MUHD	110kV	T101_cmp	-38.6	-7.7	193.1	210	
12		-0.246							
		MUHD	22kV	SBA				210	
APD		-4.543							

PQnod	0	MUHD	110kV	SBA1	-0.0	-0.0	117.9	-4.45	
elSn		NetGr							
								110.0	
1									

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
(nodes:	St1 Flg	Ploss		Busbar)				Ilim/Vn	
St2 Flg	Qloss								
=====									
Trafo	0	MUHD	110kV	T101_cmp	38.4	3.2	977.0	1050	
12		-0.246							
		MUHD	110kV	SBA1				1050	
APD		-4.543							

PQnod	0	MUHD	22kV	SBA	-38.4	-3.2	22.77	-10.74	
elSn		NetGr							
								22.00	
1									

Load	0	MUHD	22kV	SBALOAD	-38.4	-3.2	977.0	2099	
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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi	
(nodes:	St1 Flg	Ploss		Busbar)				Ilim/Vn	
St2 Flg	Qloss								
=====									
OhlCb	0	MWVEDENI	110kV	_540_VKA	-13.9	1.8	69.8	450	
		-0.027							
		MVLM	110kV	SBA7				450	
APD		0.392							
OhlCb	0	MWVEDENI	110kV	_543_UBR	25.8	-0.4	128.2	450	
		-0.137							
		MUBR	110kV	SBB				450	
APD		0.347							
Trafo	0	MVKA	110kV	T103_cmp	-7.0	-1.1	35.4	131	
13		-0.035							

UCH - výpadek vedení V5506 a V5501, V5502								
APD		MVKA -0.363	22kV	SBA				131

PQnod	O	MVKA	110kV	SBA3	-4.8	-0.3	116.1	-6.57
elSn		NetGr						
1								110.0

Load	F	MVKA	110kV	T102LOAD	-4.8	-0.3	23.9	131
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=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
Trafo	O	MVKA	110kV	T103_cmp	7.0	0.7	181.8	656
13		-0.035						
		MVKA	110kV	SBA3				656
APD		-0.363						

PQnod	O	MVKA	22kV	SBA	-7.0	-0.7	22.34	-8.54
elSn		NetGr						
1								22.00

Load	O	MVKA	22kV	SBALOAD	-7.0	-0.7	181.8	1050
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=====								
Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
=====								
ohlCb	O	MWVEDENI	110kV	_540_VKA	13.9	-1.4	69.6	450
		-0.027						
		MVKA	110kV	SBA3				450
APD		0.392						
ohlCb	O	MWVEDENI	110kV	_544_HO_	2.9	3.6	23.0	450
		-0.005						
		MHO	110kV	SBB1				450
APD		0.910						
Trafo	O	MVLM	110kV	T103_cmp	-15.1	-2.1	75.9	131
13		-0.097						
		MVLM	22kV	SBA1				210
APD		-1.316						

PQnod	O	MVLM	110kV	SBA7	-1.7	-0.1	116.0	-6.86
elSn		NetGr						
1								110.0

Load	F	MVLM	110kV	T102LOAD	-1.7	-0.1	8.5	84
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UCH - výpadek vedení V5506 a V5501, V5502

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
Trafo 13	0	MVLM -0.097 MVLM -1.316	110kV 110kV	T103_cmp SBA7	15.0	0.8	390.8	656 1050
APD								
PQnod elSn	0	MVLM NetGr	22kV	SBA1	-15.0	-0.8	22.19	-11.10 22.00
1								
Load Load	0 0	MVLM MVLM	22kV 22kV	SBA1LOAD SBA2LOAD	-7.5 -7.5	-0.4 -0.4	195.4 195.4	1706 1706

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MWVEDENI -0.012 MMAD 1.187	110kV 110kV	_567_MAD SBA	5.2	1.3	26.2	450 450
APD								
oh1Cb	0	MWVEDENI -0.009 MSLU 0.835	110kV 110kV	_568_VST SBA1	-5.2	-1.3	26.2	450 450
APD								
PQnod elSn	F	MVST NetGr	110kV	SBB	-0.0	-0.0	118.0	-4.48 110.0
1								

Type St1 (nodes: St2	Nm Flg	Station Ploss Qloss	VL	Circuit Busbar)	Pcalc	Qcalc	I/Vcalc	In/Phi Ilim/Vn
oh1Cb	0	MWVEDENI -0.000 MPRT 1.309	110kV 110kV	_556_PRT SBA	-0.0	-0.0	0.0	450 450
APD								
PQnod elSn	0	MWVEDENI NetGr	110kV	_556_PRT	0.0	0.0	115.3	-7.39 110.0
1								

UCH - výpadek vedení V5506 a V5501, V5502

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| Type    | Nm | Station  | VL    | Circuit  | Pcalc | Qcalc | I/Vcalc | In/Phi  |
|---------|----|----------|-------|----------|-------|-------|---------|---------|
| St1 Flg |    | Ploss    |       | Busbar)  |       |       |         | Ilim/Vn |
| (nodes: |    |          |       |          |       |       |         |         |
| St2 Flg |    | Qloss    |       |          |       |       |         |         |
| OhlCb   | 0  | MWVEDENI | 110kV | 5576_OKC | 44.1  | 6.6   | 219.6   | 450     |
|         |    | -0.397   |       |          |       |       |         |         |
|         |    | MOKC     | 110kV | SBC1     |       |       |         | 450     |
| APD     |    | -0.423   |       |          |       |       |         |         |
| OhlCb   | 0  | MWVEDENI | 110kV | 5578_PRT | -31.6 | -5.0  | 157.8   | 450     |
|         |    | -0.358   |       |          |       |       |         |         |
| APD     |    | MPRT     | 110kV | SBA      |       |       |         | 450     |
|         |    | 0.284    |       |          |       |       |         |         |
| Trafo   | 0  | MZDO     | 110kV | T101_cmp | -12.4 | -1.6  | 61.8    | 131     |
| 12      |    | -0.043   |       |          |       |       |         |         |
| APD     |    | MZDO     | 22kV  | SBA1     |       |       |         | 131     |
|         |    | -0.774   |       |          |       |       |         |         |
| PQnod   | 0  | MZDO     | 110kV | SBA1     | -0.0  | -0.0  | 117.2   | -5.41   |
| eISn    |    | NetGr    |       |          |       |       |         |         |
| 1       |    |          |       |          |       |       |         | 110.0   |

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Type	Nm	Station	VL	Circuit	Pcalc	Qcalc	I/Vcalc	In/Phi
St1 Flg		Ploss		Busbar)				Ilim/Vn
(nodes:								
St2 Flg		Qloss						
Trafo	0	MZDO	110kV	T101_cmp	12.4	0.8	312.6	656
12		-0.043						
APD		MZDO	110kV	SBA1				656
		-0.774						
PQnod	0	MZDO	22kV	SBA1	-12.4	-0.8	22.95	-8.61
eISn		NetGr						
1								22.00
Load	0	MZDO	22kV	SBA1LOAD	-6.2	-0.4	156.3	1312
Load	0	MZDO	22kV	SBA2LOAD	-6.2	-0.4	156.3	1312

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