[redacted]

Komplexní dodávky a montáž silnoproudých a slaboproudých technologií

[redacted]

Doklad o provedení roční zkoušky provozuschopnosti při provozu zařízení – ER/MR (Evakuační rozhlas/místní rozhlas)

Dle ČSN EN 60849, EN 54

Provozovatel: **Oblastní nemocnice Náchod a.s.,**
IČ: 26000202
DIČ: CZ699004900

Adresa objektu: **Purkyňova 446, 547 01, Náchod, budovy J+K+L**

Zhotovitel: [redacted]

Oprávněná osoba: [redacted]

Kontrola provedena dne:	Datum příští kontroly:
18. 10. - 19. 10. 2021	Říjen 2022

Předmět kontroly: **Zkouška funkčnosti systému ER + MR**

Zařízení: **ER – evakuační/místní rozhlas (Variodyn) + MR – místní rozhlas**

Prohlášení:

My zde uvedení prohlašujeme, že ve výše uvedeném prostoru bylo zařízení námi zkontrolováno, prověřena jeho provozuschopnost a návaznost na další vyhrazená požárně bezpečnostní zařízení podle schváleného projektu. Při provádění kontroly bylo postupováno v souladu s platnou právní úpravou, normativními požadavky a technickými předpisy výrobce a zejména podle ustanovení §7, §8 a §10 vyhlášky č. 246/2001 Sb., a EN54-32.

Zjištěné nedostatky, odchylky a doporučení:

Během funkční zkoušky byly zjištěny závady, které byly odstraněny v termínu 3. - 11. 11. 2021

Termín odstranění: **dle uvážení provozovatele**

Výsledek kontroly provozuschopnosti/ zkoušky činnosti při provozu:

Zkontrolované zařízení je provozuschopné a způsobilé plnit svoji funkci.

Doklad o provedené zkoušce činnosti ER při provozu

A. Údaje o provozovateli ER/MR:

Jméno nebo název provozovatele PBZ: **Oblastní nemocnice Náchod a.s.,**
Sídlo (místo) podnikání: **Purkyňova 446, 547 01, Náchod, budovy J+K+L**
IČ: **26000202**

B. Údaje o objektu, ve kterém je ER/MR provozováno:

Adresa objektu: **Oblastní nemocnice Náchod a.s.,**
Purkyňova 446, 547 01, Náchod, budovy J+K+L

C. Údaje o ER/MR:

Umístění: kanceláře, technologické, výrobní, sociální prostory
Druh: evakuační/místní rozhlas (ER)- Variodyn, AUDAC, Symetrix PRISM, XMP
Označení výrobce: Esser, Vídeň
Baterie: 6ks 12V/110Ah SUNBATTERY – SB12-110A FT
Typové označení: DOM4-24, DOM4-8

(výrobní číslo, VdS): **DOM4-24**: 583362.22#BC#1120#00008, 583362.22#BC#0920#00012, 583362.22#BC#0920#00003, **DOM4-8**: 583361.22#BB#0920#00005, 583361.22#BB#0920#00015, 583361.22#BB#0920#00011, 583361.22#BB#0920#00001, 583361.22#BB#0920#00006, **AUDAC**: 19 01 022010 0033, 19 01 022010 0047, 19 01 022010 0191, 19 01 022010 0062, 19 01 022010 0019, **XMP**: 19050373590114, 19050373590126, **SYMETRIX PRISM**: R80-0122BEU0219056, 80-0092BEU4518028

Část ER – PBZ, splňující normy EN 54 a ČSN EN 60849		
Typ:	**Název:**	**Počet:**
583362.22.xx	DOM4-24	3ks
583361.22.xx	DOM4-8	5ks
580249	Výkon. zesil. 4x500W, 100V/T, 4XD500	8ks
583331.21	Univerzální modul rozhraní UIM	2ks
581721	Záložní síťový zdroj PSU EN54-4, 24V/12A-150A do racku	2ks
583501.RE	Dig. stanice hlasatele DCS15 EN54-16, 12 tlačítek (redundantní)	2ks
583506	Dig. klávesový modul DKM18, EN54-16, 18 tlačítek (redundantní)	2ks
583386.21	Převodník TWI-RS232 pro komunikace s EPS	1ks
	Reproduktory- tlakový, nástěnný, stropní, dvojité – budova J	543ks
	Reproduktory- tlakový, nástěnný, stropní, dvojité – budova K	1118ks
	Reproduktory- tlakový, nástěnný, stropní, dvojité – budova L	17ks
Část MR – nejedná se o PBZ, nesplňuje certifikace EN54 a ČSN EN 60849 – podružná část neovlivňující funkci ER		
Typ:	**Název:**	**Počet:**
PRISM 16x16	Symetrix Audio matice 16 vstupů / 16 výstupů	1ks
xOut 12	Symetrix Audio expander pro rozšíření o 12 výstupů	1ks
CAP412	AUDAC Koncový zesilovač 4x120W	5ks
XMP44	Digitální audio přehrávač	2ks
IMP40	Přehrávač internetových rádií – modul pro XMP44	8ks
DSG 108	D-Link switch 8 portů	1ks
S-98	Pulsar PoE Switch 9 portů	1ks

D. Výsledek kontroly ER/MR:

Elektrické zařízení ER je schopno bezpečného provozu a je plně funkční. Kontrola systému byla provedena v plném rozsahu. Všechny komponenty byly v době testu funkční. Systém je využit jako evakuační rozhlas v návaznosti na systém EPS (všeobecný požární poplach pro celou budovu). Při poplachu se spustí evakuační hlášení do daných prostor.
Systém je plně funkční.

E. Data:

Datum provedení kontroly:	**18. 10. - 19. 10. 2021**	Termín příští kontroly:	**Říjen 2022**

F. Použité měřicí přístroje:

FK Technics FK9450, SN: 40801871
EMOS Clamp Multimeter EM305A, SN: 15480521
HP ProBook 4540s, SN: 2CE30509VS
UNI-T UT612, SN: 818041505

Přílohy: **2021_10_19 ONN Náchod - dvstat**
2021_10_19 ONN Náchod – svod na zem
2021_10_19 ONN Náchod – impedance linek

Já/My zde uvedení prohlašujeme, že zařízení – systém ve výše uvedeném prostoru byl mnou/námi zkontrolován, prověřena jeho provozuschopnost a návaznosti na další vyhrazená požárně bezpečnostní zařízení podle schváleného projektu.

Tato kontrola provozuschopnosti elektrického zařízení se netýká provedení kontroly síťových částí přívodu zařízení ER ve smyslu ČSN 33 1500.

Vystaveno dne: 23. 11. 2021

Převzal:……..

```
root[0]@DOM 1(172.20.252.51#1) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                  ---   ---
SG 002.01  OK                  ---   ---
SG 003.01  OK                  ---   ---
SG 004.01  OK                  ---   ---
PR 001.01  OK                  ---   ---
PR 001.02  OK                  ---   ---
PR 002.01  OK                  ---   ---
PR 002.02  OK                  ---   ---
PA 001.01  OK                  1.1   ---
PA 002.01  OK                  1.1   ---
PA 003.01  OK                  0.9   ---
PA 004.01  OK                  0.7   ---
LR 001.01  OK                  ---   ---
LR 001.02  SETPOINT ?          ---   ---
LR 001.03  SETPOINT ?          ---   ---
LR 001.04  SETPOINT ?          ---   ---
LR 001.05  SETPOINT ?          ---   ---
LR 001.06  SETPOINT ?          ---   ---
LR 002.01  OK                  ---   ---
LR 002.02  SETPOINT ?          ---   ---
LR 002.03  SETPOINT ?          ---   ---
LR 002.04  SETPOINT ?          ---   ---
LR 002.05  SETPOINT ?          ---   ---
LR 002.06  SETPOINT ?          ---   ---
LR 003.01  OK                  ---   ---
LR 003.02  SETPOINT ?          ---   ---
LR 003.03  SETPOINT ?          ---   ---
LR 003.04  SETPOINT ?          ---   ---
LR 003.05  SETPOINT ?          ---   ---
LR 003.06  SETPOINT ?          ---   ---
LR 004.01  OK                  ---   ---
LR 004.02  OK                  ---   ---
LR 004.03  OK                  ---   ---
LR 004.04  OK                  ---   ---
LR 004.05  SETPOINT ?          ---   ---
LR 004.06  SETPOINT ?          ---   ---
AV 001.01  OK                  ---   ---
AV 002.01  OK                  ---   ---
AV 003.01  OK                  ---   ---
AV 004.01  OK                  ---   ---

root[0]@DOM 2(172.20.252.52#2) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                  ---   ---
SG 002.01  OK                  ---   ---
SG 003.01  OK                  ---   ---
SG 004.01  OK                  ---   ---
PR 001.01  OK                  ---   ---
PR 001.02  OK                  ---   ---
PR 002.01  OK                  ---   ---
PR 002.02  OK                  ---   ---
PA 001.01  OK                  0.8   ---
PA 002.01  OK                  0.7   ---
PA 003.01  OK                  0.7   ---
PA 004.01  OK                  0.7   ---
LR 001.01  OK                  ---   ---
LR 001.02  SETPOINT ?          ---   ---
LR 002.01  OK                  ---   ---
LR 002.02  SETPOINT ?          ---   ---
LR 003.01  OK                  ---   ---
LR 003.02  SETPOINT ?          ---   ---
LR 004.01  OK                  ---   ---
LR 004.02  SETPOINT ?          ---   ---
AV 001.01  OK                  ---   ---
AV 002.01  OK                  ---   ---
AV 003.01  OK                  ---   ---
AV 004.01  OK                  ---   ---

root[0]@DOM 3(172.20.252.53#3) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                  ---   ---
SG 002.01  OK                  ---   ---
SG 003.01  OK                  ---   ---
SG 004.01  OK                  ---   ---
PR 001.01  OK                  ---   ---
PR 001.02  OK                  ---   ---
PR 002.01  OK                  ---   ---
PR 002.02  OK                  ---   ---
PA 001.01  OK                  1.1   ---
PA 002.01  OK                  0.7   ---
PA 003.01  OK                  1.4   ---
PA 004.01  OK                  0.9   ---
LR 001.01  OK                  ---   ---
LR 001.02  SETPOINT ?          ---   ---
```

```
LR 001.03  SETPOINT ?             ---   ---
LR 001.04  SETPOINT ?             ---   ---
LR 001.05  SETPOINT ?             ---   ---
LR 001.06  SETPOINT ?             ---   ---
LR 002.01  OK                     ---   ---
LR 002.02  SETPOINT ?             ---   ---
LR 002.03  SETPOINT ?             ---   ---
LR 002.04  SETPOINT ?             ---   ---
LR 002.05  SETPOINT ?             ---   ---
LR 002.06  SETPOINT ?             ---   ---
LR 003.01  OK                     ---   ---
LR 003.02  SETPOINT ?             ---   ---
LR 003.03  SETPOINT ?             ---   ---
LR 003.04  SETPOINT ?             ---   ---
LR 003.05  SETPOINT ?             ---   ---
LR 003.06  SETPOINT ?             ---   ---
LR 004.01  OK                     ---   ---
LR 004.02  OK                     ---   ---
LR 004.03  OK                     ---   ---
LR 004.04  OK                     ---   ---
LR 004.05  OK                     ---   ---
LR 004.06  OK                     ---   ---
AV 001.01  OK                     ---   ---
AV 002.01  OK                     ---   ---
AV 003.01  OK                     ---   ---
AV 004.01  OK                     ---   ---
DS 001.01  OK                     ---   ---
DS 002.01  OK                     ---   ---
EDP        OK

root[0]@DOM 4(172.20.252.54#4) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                     ---   ---
SG 002.01  OK                     ---   ---
SG 003.01  OK                     ---   ---
SG 004.01  OK                     ---   ---
PR 001.01  OK                     ---   ---
PR 001.02  OK                     ---   ---
PR 002.01  OK                     ---   ---
PR 002.02  OK                     ---   ---
PA 001.01  OK                     1.0   ---
PA 002.01  OK                     1.1   ---
PA 003.01  OK                     0.7   ---
PA 004.01  OK                     1.0   ---
LR 001.01  OK                     ---   ---
LR 001.02  SETPOINT ?             ---   ---
LR 001.03  SETPOINT ?             ---   ---
LR 001.04  SETPOINT ?             ---   ---
LR 001.05  SETPOINT ?             ---   ---
LR 001.06  SETPOINT ?             ---   ---
LR 002.01  OK                     ---   ---
LR 002.02  SETPOINT ?             ---   ---
LR 002.03  SETPOINT ?             ---   ---
LR 002.04  SETPOINT ?             ---   ---
LR 002.05  SETPOINT ?             ---   ---
LR 002.06  SETPOINT ?             ---   ---
LR 003.01  OK                     ---   ---
LR 003.02  SETPOINT ?             ---   ---
LR 003.03  SETPOINT ?             ---   ---
LR 003.04  SETPOINT ?             ---   ---
LR 003.05  SETPOINT ?             ---   ---
LR 003.06  SETPOINT ?             ---   ---
LR 004.01  OK                     ---   ---
LR 004.02  OK                     ---   ---
LR 004.03  OK                     ---   ---
LR 004.04  OK                     ---   ---
LR 004.05  OK                     ---   ---
LR 004.06  OK                     ---   ---
AV 001.01  OK                     ---   ---
AV 002.01  OK                     ---   ---
AV 003.01  OK                     ---   ---
AV 004.01  OK                     ---   ---

root[0]@DOM 5(172.20.252.55#5) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                     ---   ---
SG 002.01  OK                     ---   ---
SG 003.01  OK                     ---   ---
SG 004.01  OK                     ---   ---
PR 001.01  OK                     ---   ---
PR 001.02  OK                     ---   ---
PR 002.01  OK                     ---   ---
PR 002.02  OK                     ---   ---
PA 001.01  OK                     1.0   ---
PA 002.01  OK                     0.9   ---
PA 003.01  OK                     1.0   ---
```

```
PA 004.01  OK                    0.8   ---
LR 001.01  OK                    ---   ---
LR 001.02  SETPOINT ?            ---   ---
LR 002.01  IMPED HIGH            ---   ---
LR 002.02  SETPOINT ?            ---   ---
LR 003.01  OK                    ---   ---
LR 003.02  SETPOINT ?            ---   ---
LR 004.01  OK                    ---   ---
LR 004.02  SETPOINT ?            ---   ---
AV 001.01  OK                    ---   ---
AV 002.01  OK                    ---   ---
AV 003.01  OK                    ---   ---
AV 004.01  OK                    ---   ---


root[0]@DOM 6(172.20.252.56#6) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                    ---   ---
SG 002.01  OK                    ---   ---
SG 003.01  OK                    ---   ---
SG 004.01  OK                    ---   ---
PR 001.01  OK                    ---   ---
PR 001.02  OK                    ---   ---
PR 002.01  OK                    ---   ---
PR 002.02  OK                    ---   ---
PA 001.01  OK                    1.0   ---
PA 002.01  OK                    0.8   ---
PA 003.01  OK                    1.0   ---
PA 004.01  OK                    0.6   ---
LR 001.01  OK                    ---   ---
LR 001.02  SETPOINT ?            ---   ---
LR 002.01  OK                    ---   ---
LR 002.02  SETPOINT ?            ---   ---
LR 003.01  OK                    ---   ---
LR 003.02  SETPOINT ?            ---   ---
LR 004.01  OK                    ---   ---
LR 004.02  SETPOINT ?            ---   ---
AV 001.01  OK                    ---   ---
AV 002.01  OK                    ---   ---
AV 003.01  OK                    ---   ---
AV 004.01  OK                    ---   ---

root[0]@DOM 7(172.20.252.57#7) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                    ---   ---
SG 002.01  OK                    ---   ---
SG 003.01  OK                    ---   ---
SG 004.01  OK                    ---   ---
PR 001.01  OK                    ---   ---
PR 001.02  OK                    ---   ---
PR 002.01  OK                    ---   ---
PR 002.02  OK                    ---   ---
PA 001.01  OK                    0.7   ---
PA 002.01  OK                    0.7   ---
PA 003.01  OK                    0.8   ---
PA 004.01  OK                    0.7   ---
LR 001.01  OK                    ---   ---
LR 001.02  SETPOINT ?            ---   ---
LR 002.01  OK                    ---   ---
LR 002.02  SETPOINT ?            ---   ---
LR 003.01  OK                    ---   ---
LR 003.02  SETPOINT ?            ---   ---
LR 004.01  OK                    ---   ---
LR 004.02  SETPOINT ?            ---   ---
AV 001.01  OK                    ---   ---
AV 002.01  OK                    ---   ---
AV 003.01  OK                    ---   ---
AV 004.01  OK                    ---   ---

root[0]@DOM 8(172.20.252.58#8) [  3+] >dvstat
Dev-Chan   State       SysErr  DevAmp   Connection
SG 001.01  OK                    ---   ---
SG 002.01  OK                    ---   ---
SG 003.01  OK                    ---   ---
SG 004.01  OK                    ---   ---
PR 001.01  OK                    ---   ---
PR 001.02  OK                    ---   ---
PR 002.01  OK                    ---   ---
PR 002.02  OK                    ---   ---
PA 001.01  OK                    0.7   ---
PA 002.01  OK                    0.9   ---
PA 003.01  OK                    0.8   ---
PA 004.01  OK                    0.6   ---
LR 001.01  OK                    ---   ---
LR 001.02  SETPOINT ?            ---   ---
LR 002.01  OK                    ---   ---
```

LR 002.02	SETPOINT ?	---	---
LR 003.01	SETPOINT ?	---	---
LR 003.02	SETPOINT ?	---	---
LR 004.01	OK	---	---
LR 004.02	SETPOINT ?	---	---
AV 001.01	OK	---	---
AV 002.01	OK	---	---
AV 003.01	OK	---	---
AV 004.01	OK	---	---
DS 001.01	OK	---	---
DS 002.01	OK	---	---
DS 003.01	DEFECT	---	---

```
root[0]@DOM 1(172.20.252.51#1) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 001.03  OFF            0.0        0.0
LR 001.04  OFF            0.0        0.0
LR 001.05  OFF            0.0        0.0
LR 001.06  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 002.03  OFF            0.0        0.0
LR 002.04  OFF            0.0        0.0
LR 002.05  OFF            0.0        0.0
LR 002.06  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 003.03  OFF            0.0        0.0
LR 003.04  OFF            0.0        0.0
LR 003.05  OFF            0.0        0.0
LR 003.06  OFF            0.0        0.0
LR 004.01  OFF            0.0        0.0
LR 004.02  OFF            0.0        0.0
LR 004.03  OFF            0.0        0.0
LR 004.04  OFF            0.0        0.0
LR 004.05  OFF            0.0        0.0
LR 004.06  OFF            0.0        0.0


root[0]@DOM 2(172.20.252.52#2) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 004.01  ON            >50k       >50k
LR 004.02  OFF            0.0        0.0


root[0]@DOM 3(172.20.252.53#3) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 001.03  OFF            0.0        0.0
LR 001.04  OFF            0.0        0.0
LR 001.05  OFF            0.0        0.0
LR 001.06  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 002.03  OFF            0.0        0.0
LR 002.04  OFF            0.0        0.0
LR 002.05  OFF            0.0        0.0
LR 002.06  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 003.03  OFF            0.0        0.0
LR 003.04  OFF            0.0        0.0
LR 003.05  OFF            0.0        0.0
LR 003.06  OFF            0.0        0.0
LR 004.01  OFF            0.0        0.0
LR 004.02  OFF            0.0        0.0
LR 004.03  OFF            0.0        0.0
LR 004.04  OFF            0.0        0.0
LR 004.05  OFF            0.0        0.0
LR 004.06  OFF            0.0        0.0


root[0]@DOM 4(172.20.252.54#4) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 001.03  OFF            0.0        0.0
LR 001.04  OFF            0.0        0.0
LR 001.05  OFF            0.0        0.0
LR 001.06  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 002.03  OFF            0.0        0.0
LR 002.04  OFF            0.0        0.0
LR 002.05  OFF            0.0        0.0
LR 002.06  OFF            0.0        0.0
```

```
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 003.03  OFF            0.0        0.0
LR 003.04  OFF            0.0        0.0
LR 003.05  OFF            0.0        0.0
LR 003.06  OFF            0.0        0.0
LR 004.01  OFF            0.0        0.0
LR 004.02  OFF            0.0        0.0
LR 004.03  OFF            0.0        0.0
LR 004.04  OFF            0.0        0.0
LR 004.05  OFF            0.0        0.0
LR 004.06  OFF            0.0        0.0


root[0]@DOM 5(172.20.252.55#5) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 004.01  ON            >50k       >50k
LR 004.02  OFF            0.0        0.0


root[0]@DOM 6(172.20.252.56#6) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 004.01  ON            >50k       >50k
LR 004.02  OFF            0.0        0.0


root[0]@DOM 7(172.20.252.57#7) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 004.01  ON            >50k       >50k
LR 004.02  OFF            0.0        0.0


root[0]@DOM 8(172.20.252.58#8) [  2+] >earthlst
Earth fault measuring  Wire A     Wire B
Dev-Chan   Action         Ohm        Ohm
LR 001.01  ON            >50k       >50k
LR 001.02  OFF            0.0        0.0
LR 002.01  ON            >50k       >50k
LR 002.02  OFF            0.0        0.0
LR 003.01  ON            >50k       >50k
LR 003.02  OFF            0.0        0.0
LR 004.01  ON            >50k       >50k
LR 004.02  OFF            0.0        0.0
```

```
root[0]@DOM 1(172.20.252.51#1) [  1+] >implst
Impedance measuring: ON
Dev-Chan   Action   Power(nominal)   Tolerance        Setpoint           Value              Setpoint time
LR 001.01  SMALLSIG         124.3W         30%        80.3 Ohm          80.2 Ohm  Thu Jul 23 07:51:05 2020
LR 001.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.03  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.04  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.01  SMALLSIG         156.2W         30%        63.8 Ohm          63.8 Ohm  Thu Jul 23 07:51:18 2020
LR 002.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.03  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.04  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.01  SMALLSIG         141.6W         30%        70.3 Ohm          70.4 Ohm  Thu Jul 23 07:51:31 2020
LR 003.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.03  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.04  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.01  SMALLSIG           2.4W          7%     4236.5 Ohm       4235.7 Ohm  Thu Jul 23 07:51:44 2020
LR 004.02  SMALLSIG           2.3W          7%     4259.3 Ohm       4258.3 Ohm  Thu Jul 23 07:51:57 2020
LR 004.03  SMALLSIG           2.3W          7%     4298.5 Ohm       4298.1 Ohm  Thu Jul 23 07:52:10 2020
LR 004.04  SMALLSIG           2.3W          7%     4305.7 Ohm       4305.9 Ohm  Thu Jul 23 07:52:23 2020
LR 004.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970

root[0]@DOM 2(172.20.252.52#2) [  1+] >implst
Impedance measuring: ON
Dev-Chan   Action   Power(nominal)   Tolerance        Setpoint           Value              Setpoint time
LR 001.01  SMALLSIG         160.6W         30%        62.0 Ohm          62.1 Ohm  Thu Jul 23 07:53:32 2020
LR 001.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.01  SMALLSIG         144.8W         30%        69.0 Ohm          68.8 Ohm  Thu Jul 23 07:53:45 2020
LR 002.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.01  SMALLSIG         142.9W         30%        69.7 Ohm          69.8 Ohm  Thu Jul 23 07:53:58 2020
LR 003.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.01  SMALLSIG         139.8W         30%        71.2 Ohm          71.3 Ohm  Thu Jul 23 07:54:11 2020
LR 004.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970

root[0]@DOM 3(172.20.252.53#3) [  1+] >implst
Impedance measuring: ON
Dev-Chan   Action   Power(nominal)   Tolerance        Setpoint           Value              Setpoint time
LR 001.01  SMALLSIG          34.4W         30%       289.9 Ohm         290.1 Ohm  Thu Jul 23 07:54:44 2020
LR 001.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.03  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.04  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.01  SMALLSIG          31.2W         30%       319.0 Ohm         319.4 Ohm  Thu Jul 23 07:54:58 2020
LR 002.02  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.03  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.04  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.05  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.06  OFF           SETPOINT ?         25%      SETPOINT ?       SETPOINT ?  Thu Jan  1 00:00:00 1970
```

```
LR 003.01  SMALLSIG           0.6W          30%      15351.7 Ohm       15373.2 Ohm  Thu Jul 23 07:55:11 2020
LR 003.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.03  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.04  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.05  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.06  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.01  SMALLSIG           2.4W           7%       4177.6 Ohm        4176.7 Ohm  Thu Jul 23 07:55:24 2020
LR 004.02  SMALLSIG           2.4W           7%       4219.2 Ohm        4218.4 Ohm  Thu Jul 23 07:55:37 2020
LR 004.03  SMALLSIG           2.3W           7%       4242.9 Ohm        4242.5 Ohm  Thu Jul 23 07:55:50 2020
LR 004.04  SMALLSIG           2.3W           7%       4262.0 Ohm        4261.9 Ohm  Thu Jul 23 07:56:03 2020
LR 004.05  SMALLSIG           2.3W           7%       4299.4 Ohm        4299.3 Ohm  Thu Jul 23 07:56:16 2020
LR 004.06  SMALLSIG           2.3W           7%       4354.4 Ohm        4353.8 Ohm  Thu Jul 23 07:56:29 2020

root[0]@DOM 4(172.20.252.54#4) [  1+] >implst
Impedance measuring: ON
Dev-Chan   Action   Power(nominal)   Tolerance        Setpoint            Value            Setpoint time
LR 001.01  SMALLSIG          94.3W          30%       105.9 Ohm         105.7 Ohm  Thu Jul 23 07:57:08 2020
LR 001.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.03  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.04  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.05  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 001.06  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.01  SMALLSIG         136.0W          30%        73.4 Ohm          73.3 Ohm  Thu Jul 23 07:57:21 2020
LR 002.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.03  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.04  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.05  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.06  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.01  SMALLSIG         129.3W          30%        77.0 Ohm          77.1 Ohm  Thu Jul 23 07:57:34 2020
LR 003.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.03  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.04  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.05  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.06  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.01  SMALLSIG           2.4W           7%       4110.2 Ohm        4109.3 Ohm  Thu Jul 23 07:57:47 2020
LR 004.02  SMALLSIG           2.4W           7%       4125.2 Ohm        4124.2 Ohm  Thu Jul 23 07:58:00 2020
LR 004.03  SMALLSIG           2.4W           7%       4148.2 Ohm        4147.8 Ohm  Thu Jul 23 07:58:13 2020
LR 004.04  SMALLSIG           2.4W           7%       4162.2 Ohm        4162.0 Ohm  Thu Jul 23 07:58:26 2020
LR 004.05  SMALLSIG           2.4W           7%       4200.1 Ohm        4199.8 Ohm  Thu Jul 23 07:58:40 2020
LR 004.06  SMALLSIG           2.3W           7%       4269.2 Ohm        4268.7 Ohm  Thu Jul 23 07:58:53 2020

root[0]@DOM 5(172.20.252.55#5) [  4+] >implst
Impedance measuring: ON
Dev-Chan   Action   Power(nominal)   Tolerance        Setpoint            Value            Setpoint time
LR 001.01  SMALLSIG         104.6W          10%        96.5 Ohm          95.3 Ohm  Thu Nov 11 16:00:38 2021
LR 001.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 002.01  SMALLSIG         238.8W          10%        42.3 Ohm          41.7 Ohm  Thu Nov 11 16:00:51 2021
LR 002.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 003.01  SMALLSIG         201.7W          10%        49.7 Ohm          49.4 Ohm  Thu Nov 11 16:01:04 2021
LR 003.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970
LR 004.01  SMALLSIG         107.2W          10%        93.4 Ohm          93.0 Ohm  Thu Nov 11 16:01:17 2021
LR 004.02  OFF           SETPOINT ?         25%       SETPOINT ?        SETPOINT ?  Thu Jan  1 00:00:00 1970

root[0]@DOM 6(172.20.252.56#6) [  1+] >implst
Impedance measuring: ON
```

Dev-Chan	Action	Power(nominal)	Tolerance	Setpoint	Value	Setpoint time
LR 001.01	SMALLSIG	166.3W	30%	59.9 Ohm	59.9 Ohm	Thu Jul 23 08:00:42 2020
LR 001.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 002.01	SMALLSIG	123.1W	30%	79.6 Ohm	80.9 Ohm	Thu Jul 23 08:00:55 2020
LR 002.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 003.01	SMALLSIG	155.5W	30%	59.9 Ohm	64.1 Ohm	Thu Jul 23 08:01:09 2020
LR 003.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 004.01	SMALLSIG	124.5W	30%	80.0 Ohm	80.1 Ohm	Thu Jul 23 08:01:22 2020
LR 004.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970

root[0]@DOM 7(172.20.252.57#7) [1+] >implst
Impedance measuring: ON

Dev-Chan	Action	Power(nominal)	Tolerance	Setpoint	Value	Setpoint time
LR 001.01	SMALLSIG	143.0W	30%	69.7 Ohm	69.7 Ohm	Thu Jul 23 08:01:55 2020
LR 001.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 002.01	SMALLSIG	236.9W	30%	42.1 Ohm	42.1 Ohm	Thu Jul 23 08:02:08 2020
LR 002.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 003.01	SMALLSIG	200.9W	30%	49.6 Ohm	49.6 Ohm	Thu Jul 23 08:02:21 2020
LR 003.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 004.01	SMALLSIG	151.6W	30%	65.8 Ohm	65.7 Ohm	Thu Jul 23 08:02:34 2020
LR 004.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970

root[0]@DOM 8(172.20.252.58#8) [1+] >implst
Impedance measuring: ON

Dev-Chan	Action	Power(nominal)	Tolerance	Setpoint	Value	Setpoint time
LR 001.01	SMALLSIG	19.6W	30%	508.5 Ohm	508.6 Ohm	Thu Jul 23 08:04:01 2020
LR 001.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 002.01	SMALLSIG	72.5W	30%	137.6 Ohm	137.5 Ohm	Thu Jul 23 08:04:14 2020
LR 002.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 003.01	SMALLSIG	SETPOINT ?	30%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 003.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970
LR 004.01	SMALLSIG	122.7W	30%	81.2 Ohm	81.2 Ohm	Thu Jul 23 08:04:40 2020
LR 004.02	OFF	SETPOINT ?	25%	SETPOINT ?	SETPOINT ?	Thu Jan 1 00:00:00 1970