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| PREVENTIVE MAINTENANCE INFORMATION | | | |
| **N° AP: \_\_\_\_\_\_\_\_\_\_\_** | **Date: \_\_/\_\_/\_\_\_\_** | **Engineer: \_\_\_\_\_\_\_\_\_\_\_** | **Company: \_\_\_\_\_\_\_\_\_\_\_** |
| **Country: \_\_\_\_\_\_\_\_\_\_** | **Site: \_\_\_\_\_\_\_\_\_\_\_** | **Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |

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| 1. **MODULES IDENTIFICATION** |  |

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| ***0.1 MODULE*** | | | | | | | | ***0.2 TABLE TYPE*** | | | | | | | | | ***0.3 IMAGE INTENSIFIER SIZE*** | | | |
| **SERIAL N°**  **\_\_\_\_\_\_\_\_\_** | **STANDARD** | | **AUPS** | | **VISIO TRACK** | | **IHMD** | **SERIAL N°**  **\_\_\_\_\_\_\_\_\_\_** | | | **I-Sys** | | **KARBON F** | | **KARBON S** | | **32cm (12”)** | | **21cm (9”)** | |
| ***0.4 U/S SCANNER*** | | | | | | | ***0.5 PROBE TYPE*** | | | ***0.6 U/S Com. Cable*** | | | | ***0.7 WINDOWS VERSION*** | | | | ***0.8 VT SPHERE VERSION*** | | |
| **INTERNAL** | | **EXTERNAL** | | **TYPE**  **\_\_\_\_\_\_\_\_\_\_** | | **S/N (if external)**  **\_\_\_\_\_\_\_\_\_\_** | **Probe Type**  **\_\_\_\_\_\_\_\_\_** | | **S/N**  **\_\_\_\_\_\_\_\_\_** | **Serial DB9** | | **RJ-45** | | **XP** | | **SEVEN**  **64bit**  **32bit** | | **NDI** | | **RADIX** |

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| Software IDENTIFICATION | | | | | | GLOBAL VERSION: \_\_\_\_\_\_\_\_ | |
| ***0.9 ESWL*** | ***0.10 BDD*** | ***0.10 MEP*** | ***0.12 TABLE*** | ***0.13 AUPS*** | ***0.14 U/S SCANNER INTERFACE*** | ***0.15 X-RAY***  ***(Dunlee)*** | ***0.16 X-RAY***  ***(PLC)*** |
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| **X RAY IDENTIFICATION** | | | | | | **☐ NA** |
| 0.17 | X-Ray rack serial number |  | 0.18 | X-Ray rack monoblock number |  | |

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| X-Ray Setting Default | | Tick active configuration | | | | | | | |
| 0.19 | DAP system | Calculated DAP | | | | Measured DAP | | | |
| 0.20 | Operating Curve | Fluoro | | | | IsoWatt | | | |
| 0.21 | Default fluoroscopy | Continuous fluoro | Continuous fluoro Low | | | Pulsed 12 | Pulsed 9 | | Pulsed 6 |
| 0.22 | Default filament | Small | | | Large | | No large | | |
| 0.23 | Pulsed Mode Large Filament High Dose | 30 | | | 60 | | 120 | | |
| 0.24 | Pulsed Mode Large Filament Low Dose | 30 | | | 60 | | 120 | | |
| 0.25 | Pulsed Mode Small Filament High Dose | 10 | | 15 | | 30 | | 60 | |
| 0.26 | Pulsed Mode Small Filament Low Dose | 10 | | 15 | | 30 | | 60 | |
| 0.27 | Continuous Fluoroscopy dose mode | Normal | | | | Double | | | |
| 0.28 | Pulsed Fluoroscopy dose mode | Normal | | | | Half dose | | | |

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| 1. **CONTROL TOOLS** | | | | | | |
| TEST EQUIPEMENT | | SERIAL NUMBER | VALIDITY | | COMMENTS N° | |
| 1.1 | Digital Multi-Meter | \_\_\_\_\_\_ | \_\_/\_\_/\_\_ | |  | |
| 1.2 | kV Meter. Type : \_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_/\_\_/\_\_ | |  | |
| 1.3 | Dose Meter. Type : \_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_/\_\_/\_\_ | |  | |
| TOOLS | | | OK | NOT OK | NA | COMMENTS N° |
| 1.5 | U/S accuracy and fragmentation test tool TMS233020 | |  |  |  |  |
| 1.6 | AUPS second focus simulator TMS 230290 | |  |  |  |  |
| 1.7 | **USB peripherals:** USB QWERTY/AZERTY Keyboard TMS 230257/TMS 230166 USB Mouse TMS 223340 | |  |  |  |  |
| 1.8 | **F2 Simulators:** F2 peak with protection TMS 234624 Membrane F2 phantom (crown) TMS 229949 | |  |  |  |  |
| 1.9 | **Visio-track calibration tools:** Visio track calibration tool plate TMS 238255  Visio track V2 calibration tool TMS 237415 | |  |  |  |  |
| 1.10 | **Table accessories:** Calibration plate TMS 230847  Dummy plug TMS 230961 | |  |  |  |  |
| 1.11 | X-ray tank alignment tool (brass cylinder) TMS 229030 | |  |  |  |  |
| 1.12 | Fragmentation test tool TMS 229799 | |  |  |  |  |

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| 1. **REMOTE CONTROLLERS (Table and Module)** | | | | | | |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 2.1 | Module control panel buttons |  |  |  |  |  |
| 2.2 | Module remote controller buttons |  |  |  |
| 2.3 | Table remote controller buttons. |  |  |  |
| 2.4 | Cables |  |  |  |
| 2.5 | LEDs and backlights. |  |  |  |

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| 1. **PARTS TO REPLACE** | | | | | | | **NA** |
| Kit of Regular visit (234335) | | | | | | | |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° | |
| 3.1 | Electrode Socket (TMS 229095). |  |  |  |  |  | |
| 3.2 | Membrane holder clips kit (TMS 233058). |  |  |  | |
| 3.3 | Patient Membrane (TMS 228258). |  |  |  | |
| 3.4 | Purge screw O-ring (PM0645). |  |  |  | |
| 3.5 | One way valve. (4x TMS 221294) |  |  |  | |

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| 1. **INSPECTIONS** | | | | | | | **NA** |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° | |
| 4.1 | Crimping of the high voltage harness. |  |  |  |  |  | |
| 4.2 | Insulation and contact of the electrode socket base. |  |  |  | |

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| 1. **WATER TREATMENT** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 5.1 | Tank cleaned and rinsed |  |  |  |  |  |  |
| 5.2 | Water filters cleaning |  |  |  |
| 5.3 | Tank filling. |  |  |  |
| 5.4 | Air bubbles. |  |  |  |
| 5.5 | Flat membrane. |  |  |  |
| 5.6 | Leakage. |  |  |  |
| 5.7 | Generator filling time. | \_\_\_\_\_\_ |  |  |  |

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| 1. **ELECTRODE WARM UP (using new electrode)** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 6.1 | Electrode insertion |  |  |  |  |  |  |
| 6.2 | Treatment position detection |  |  |  |
| 6.3 | Electrode Running in |  |  |  |
| 6.4 | Running in value. | \_\_\_\_\_\_ | 55% - 85% |  |  |  |
| 6.5 | KV Stability | \_\_\_\_\_\_ | 15.5kV ±1.5 |  |  |  |
| 6.6 | Electrode presence |  |  |  |  |  |  |

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| 1. **CONNECTIONS** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 7.1 | Transformer primary voltage | \_\_\_\_\_\_ | ±10% |  |  |  |  |
| 7.2 | Transformer secondary voltage | \_\_\_\_\_\_ | 230V ±10% |  |  |  |  |
| 7.3 | Module emergency stop. |  |  |  |  |  |  |
| 7.4 | Remote console emergency stop. |  |  |  |  |
| 7.5 | Table emergency stop. |  |  |  |  |

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| 1. **MECHANICAL STRUCTURE** | | | | | | |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 8.1 | C-Arm bearings |  |  |  |  |  |
| 8.2 | Generator bearings |  |  |  |
| 8.3 | Carriage movements |  |  |  |
| 8.4 | Carriage unlocking lever |  |  |  |
| 8.5 | 2 video monitor screens rotation |  |  |  |
| 8.6 | 2 video monitor screens screw |  |  |  |  |
| 8.7 | Wheel wedges are firmly in place |  |  |  |  |
| 8.8 | Generator is clean |  |  |  |
| 8.9 | Generator chain screw |  |  |  |
| 8.10 | Generator rotation |  |  |  |

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| 1. **TABLE** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 9.1 | Origin position. |  |  |  |  |  |  |
| 9.2 | Cushions |  |  |  |
| 9.3 | Table centering |  |  |  |
| 9.4 | Movement’s software |  |  |  |
| 9.5 | Table collision |  |  |  |
| 9.6 | Trendelenburg movement |  |  |  |
| 9.7 | Steel rails |  |  |  |
| 9.8 | Torx screws (I-Sys Table only) |  |  |  |  |
| 9.9 | Table clamping (I-Sys Mobile Table only) |  |  |  |  |

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| 1. **TABLE MOVEMENT ACCURACY** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 10.1 | Movement X-axis. | \_\_\_\_\_\_ | 50mm ±2 |  |  |  |  |
| 10.2 | Movement Y-axis. | \_\_\_\_\_\_ | 40mm ±2 |  |  |  |
| 10.3 | Movement Z-axis. | \_\_\_\_\_\_ | 100mm ±2 |  |  |  |

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| 1. **LOCALIZATION ACCURACY (X-RAY)** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 11.1 | Computer cross centration |  | 512±12 |  |  |  |  |
| 11.2 | Isocenter orbital rotation stability |  |  |  |  |  |
| 11.3 | Isocenter cranio-caudal rotation stability |  |  |  |
| 11.4 | Isocenter combined rotation stability |  |  |  |
| 11.5 | F2 point alignment |  |  |  |
| 11.6 | Laser cross alignment |  | <5mm |  |  |  |
| 11.7 | Laser lines intersection |  |  |  |  |  |
| 11.10 | Localization accuracy | X= mm  Y= mm  Z= mm | <2mm  <2mm  <2mm |  |  |  |

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| 1. **VISIO TRACK LOCALIZATION SYSTEM** | | | | | | | | **NA** |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° | |
| 12.1 | Camera support |  |  |  |  |  |  | |
| 12.2 | Radix sphere cleaning |  |  |  | |
| 12.3 | Visio Track Calibration |  |  |  | |
| 12.4 | X-ray cross and Visio-track cross superposition |  |  |  | |
| 12.5 | VisioTrack localization accuracy | X= mm  Y= mm  Z= mm | <2mm  <2mm  <2mm |  |  |  | |
| 12.6 | Locating pins and holes |  |  |  |  |  | |
| 12.7 | Table tool spheres visibility |  |  |  | |
| 12.8 | Generator tool spheres visibility |  |  |  | |

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| 1. **AUPS LOCALIZATION SYSTEM** | | | | | | | | **NA** |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° | |
| 13.1 | AUPS alignment. |  |  |  |  |  |  | |
| 13.2 | AUPS fixation |  |  |  | |
| 13.3 | AUPS movements |  |  |  | |
| 13.4 | DF2 Check | \_\_\_\_\_\_ | 2mm |  |  |  | |
| 13.5 | U/S localization accuracy |  |  |  |  |  | |
| 13.6 | 2 patient positions detection |  |  |  | |

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| 1. **X-RAY SYSTEM (Every 6 months)** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 14.1 | Seasoning X-ray parameters. |  |  |  |  |  |  |
| 14.2 | 4 squares X-ray image |  |  |  |  |
| 14.3 | X-ray emission warning |  |  |  |
| 14.4 | Image intensifier safety device |  |  |  |
| 14.5 | Iris collimator |  |  |  |
| 14.6 | Blade collimator |  |  |  |
| 14.7 | PSM05 Voltage TP2 |  | ±10% |  |  |  |
| 14.8 | PSM05 Voltage TP3 |  | 4.5Vdc±0.2 |  |  |  |
| 14.9 | Autodose (ABC)   * 1mm Cu * 2mm Cu * 3mm Cu | \_\_\_\_\_\_ \_\_\_\_\_\_  \_\_\_\_\_\_ | 58kV ±4kV  66kV ±4kV  74kV ±4kV |  |  |  |
| 14.10 | PLC back-up battery | \_\_\_\_\_\_ | >2.91Vdc |  |  |  |
| 14.11 | X-ray footswitch |  |  |  |  |  |
| 14.12 | Spatial resolution | \_\_\_\_\_\_ |  |  |  |  |
| 14.13 | Timer and DAP |  |  |  |  |  |
| 14.14 | X-ray parameters |  |  |  |  |  |
| 14.17 | Operating hours | \_\_\_\_\_\_ |  |  |  |  |

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| 1. **X-RAY SYSTEM (Yearly tests) – Refer to Procedure TMS 510013** | | | | | | | **NA** |
| CONTROL (kV Accuracy) | | Value | Tolerance | OK | NOT OK | COMMENTS N° | |
| 15.1 | **kV** accuracy : 60kV | \_\_\_\_\_\_ | 10% |  |  |  | |
| **kV** accuracy : 70kV | \_\_\_\_\_\_ | 10% |  |  |  | |
| **kV** accuracy : 90kV | \_\_\_\_\_\_ | 10% |  |  |  | |
| **kV** accuracy : 110kV | \_\_\_\_\_\_ | 10% |  |  |  | |
| CONTROL (Half Value Layer) | | | | | | | |
| 15.2 | Aluminum thickness |  | >2.5mm Al |  |  |  | |
| CONTROL (Timer) | | | | | | | |
| 15.3 | Continuous fluoroscopy timer accuracy |  | 3 sec |  |  |  | |

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| CONTROL (DAP MEASUREMENT) | | | | | | | Tolerance | OK | NOT OK | COMMENTS N° |
| 15.4  N | Radius (cm) | | Area (cm²) | | *Measured Dose* (mGy) | |  |  |  |  |
| \_\_\_\_\_\_ | | \_\_\_\_\_\_ | | \_\_\_\_\_\_ | |  |  |  |  |
| Real DAP (mGy x cm²) | \_\_\_\_\_\_ | Isys DAP (mGy x cm²) | \_\_\_\_\_\_ | | Relative Error  \_\_\_\_\_\_ | 25% |  |  |  |
| Z1 | Radius (cm) | | Area (cm²) | | *Measured Dose (mGy)* | |  |  |  |  |
| \_\_\_\_\_\_ | | \_\_\_\_\_\_ | | *\_\_\_\_\_\_* | |  |  |  |  |
| Real DAP (mGy x cm²) | \_\_\_\_\_\_ | Isys DAP (mGy x cm²) | \_\_\_\_\_\_ | | Relative Error  \_\_\_\_\_\_ | 25% |  |  |  |
| Z2 | Radius (cm) | | Area (cm²) | | *Measured Dose* (mGy) | |  |  |  |  |
| \_\_\_\_\_\_ | | \_\_\_\_\_\_ | | \_\_\_\_\_\_ | |  |  |  |  |
| Real DAP (mGy x cm²) | \_\_\_\_\_\_ | Isys DAP (mGy x cm²) | \_\_\_\_\_\_ | | Relative Error  \_\_\_\_\_\_ | 25% |  |  |  |

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| CONTROL (MAX DOSE RATE) | | | Value | Tolerance | | OK | | | | NOT OK | | COMMENTS N° |
| 15.5 | Normal mode dose meter measure  (in mGy/min.) | | \_\_\_\_\_\_ | <100mGy/min | |  | | | |  | |  |
| 15.6 | Double mA mode dose meter measure  (in mGy/min.) | | \_\_\_\_\_\_ | <200mGy/min | |  | | | |  | |  |
| CONTROL (LOW CONTRAST TEST) | | Nb last visible circle | Value | Tolerance | | | OK | | | NOT OK | | COMMENTS N° |
| 15.7 | Field 1 | \_\_\_\_\_\_ | \_\_\_\_\_\_ |  | | |  | |  | | |  |
| Field 2 | \_\_\_\_\_\_ | \_\_\_\_\_\_ | 4.5% | | |  | |  | | |  |
| Field 3 | \_\_\_\_\_\_ | \_\_\_\_\_\_ |  | | |  | |  | | |  |
| CONTROL (SPACIAL RESOLUTION) normal and double mA | | | Value | Tolerance | OK | | | NOT OK | | | NA | COMMENTS N° |
| 15.8  N | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  |  | | |  | | |  |  |
|  |
| Z1 | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  | | |  | | |  |  |
|  |
| Z2 | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  | | |  | | |  |  |
|  |  |
| 15.9  N | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  |  | | |  | | |  |  |
|  |  |
| Z1 | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  | | |  | | |  |  |
|  |
| Z2 | * Image screen * Remote console | | \_\_\_\_\_\_  \_\_\_\_\_\_ |  | | |  | | |  |  |
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| 1. **COMPUTER** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 16.1 | PC screen image |  |  |  |  |  |  |
| 16.2 | Touch screen |  |  |  |  |
| 16.3 | Printer |  |  |  |  |  |
| 16.4 | Ink cartridges |  |  |  |  |  |
| 16.5 | Motherboard battery | \_\_\_\_\_\_ |  |  |  |  |  |
| 16.6 | Hospital name |  |  |  |  |  |  |
| 16.7 | Automatic data base back up | \_\_\_\_\_\_ |  |  |  |  |
| 16.8 | MDB back up of the data base |  |  |  |  |  |  |
| 16.9 | Database files backup |  |  |  |  |  |
| 16.10 | Free space on hard drive C:\  D:\ | \_\_\_\_\_\_ |  |  |  |  |  |
| \_\_\_\_\_\_ |  |  |
| 16.11 | Defragmentation |  |  |  |  |  |  |
| 16.12 | Dust filter |  |  |  |  |  |

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| 1. **SUBREPORTING DATA** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 17.1 | Number of treatment | \_\_\_\_\_\_\_ |  |  |  |  |  |
| 17.2 | Counter report   * A\_NB\_GENERATOR * A\_NB\_EMBASE * A\_NB\_MODULE | \_\_\_\_\_\_\_  \_\_\_\_\_\_\_  \_\_\_\_\_\_\_ |  |  |  |  |  |
| 17.3 | Files backup |  |  |  |  |  |  |
| 17.7 | Check logs |  |  |  |  |  |  |

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| 1. **TREATMENT SIMULATION** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 18.1 | Fragmentation test with TMS229799 tool | \_\_\_\_\_\_ |  |  |  |  |  |
| 18.2 | Fragmentation test with TMS233020 tool |  |  |  |  |  |
| 18.3 | Touchscreen interference (X-Rays side) |  |  |  |  |
| 18.4 | Touchscreen interference (U/S side) |  |  |  |
| 18.5 | Power feedback | 90%-110% |  |  |  |
| 18.6 | Report details |  |  |  |  |
| 18.7 | Test stone inspection |  |  |  |  |

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| 1. **ECG** | | | | | | | **NA** |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° | |
| 21.1 | ECG synchronization. |  |  |  |  |  | |
| 21.2 | Cables. |  |  |  | |

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| 1. **APPEARANCE** | | | | | | |
| CONTROL | | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 20.1 | Panels condition   * I-sys treatment module. * I.I. covers * AUPS covers * Remote console |  |  |  |  |  |
| 20.2 | Cable condition   * 16A treatment module * 32A X-ray system * Treatment table * Remote console * X-ray footswitches * DICOM * U/S scanner |  |  |  |  |  |
| 19.3 | Labels |  |  |  |  |  |
| 19.4 | Panels and screens clean |  |  |  |  |  |
| 19.5 | PM sticker (only for France) |  |  |  |  |  |

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| 1. **ELECTODE STORAGE UNIT** | | | | | | | |
| CONTROL | | Value | Tolerance | OK | NOT OK | NA | COMMENTS N° |
| 21.1 | Blue LED. |  |  |  |  |  |  |
| 21.2 | Pressure. | <-0.90 |  |  |  |
| 21.3 | Vacuum pressure time. | \_\_\_\_\_\_ | < 1 min |  |  |  |
| 21.4 | OFF button. |  |  |  |  |  |
| 21.5 | Electric cord. |  |  |  |
| 21.6 | Electrobox |  |  |  |  |

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| 1. **ELECTRICAL SAFETY TEST** | | | | | | | | **NA** |
| N° | CONTROL | VALUE | OK | NOK | | NA | COMMENTS N° | |
| 22 | All item passed in electrical safety test. |  |  |  |  | |  | |

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| 1. **SYSTEM READY** | | | | | | | |
| N° | CONTROL | VALUE | OK | NOK | | NA | COMMENTS N° |
| 23 | System is ready for usage. |  |  |  |  | |  |

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| DOCUMENTS |
| **List any documents left with customer or local distributor.** |
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| **CUSTOMER** | **SUPPORT ENGINEER** | **SERVICE MANAGER** |
| Date: **\_\_/\_\_/\_\_\_\_**  Family Name:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | Date: **\_\_/\_\_/\_\_\_\_**  Family Name:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | Date: **\_\_/\_\_/\_\_\_\_**  Family Name:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| Signature: | Signature: | Signature: |