

System type: 78107 GYROSCAN ACS-NT

Module: MR Coil Replacement

Chapter: SPT executed

Cycle:

Work:

| Action name       | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-------------------|------|-----|-----|---------|---------|---------|---------|---------|
| Run SPT           |      |     |     |         |         |         |         |         |
| Visual Inspection |      |     |     |         |         |         |         |         |

Module: Gyroscan NT PM-man. (All releases)

Chapter: Checks 4 Months

Cycle: 4 Months

Work:

| Action name                            | Unit | Min    | Max    | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|--|------|--------|--------|---------|---------|---------|---------|---------|
| 2.1.1 Phantom check                    |      |        |        |         |         |         |         |         |
| 2.1.2 PIQT Periodic Image Quality Test |      |        |        |         |         |         |         |         |
| 2.3 Dust filters and fans              |      |        |        |         |         |         |         |         |
| 2.6 Check site conditions              |      |        |        |         |         |         |         |         |
| Temperature Examination Room           | °C   | 20.000 | 24.000 |         |         |         |         |         |
| Temperature Technical Room             | °C   | 15.000 | 24.000 |         |         |         |         |         |
| Temperature Control Room               | °C   | 18.000 | 24.000 |         |         |         |         |         |
| Relative Humidity Examination Room     | %    | 40.000 | 60.000 |         |         |         |         |         |
| Relative Humidity Technical Room       | %    | 30.000 | 70.000 |         |         |         |         |         |
| Relative Humidity Control Room         | %    | 30.000 | 70.000 |         |         |         |         |         |
| Amount of Dust                         |      |        |        |         |         |         |         |         |
| 4.3 Replacem. date Ion. Cartridge      |      |        |        |         |         |         |         |         |
| 4.5 Verify Heat Exchanger settings     |      |        |        |         |         |         |         |         |
| 7.1.1 Check finger prot. plate & alarm |      |        |        |         |         |         |         |         |
| 8.4 RF Power Ref. & PU coil adjustment |      |        |        |         |         |         |         |         |
| 9. Monitor adjustment                  |      |        |        |         |         |         |         |         |
| 10.1 Non-Optical Mouse Cleaning        |      |        |        |         |         |         |         |         |
| 11.1 Clean up Directories              |      |        |        |         |         |         |         |         |
| 11.2 Total Backup                      |      |        |        |         |         |         |         |         |
| 11.6 Check Statistical Logging         |      |        |        |         |         |         |         |         |

Chapter: Check pressure of the compressor

Cycle: 4 Months

Work:

| Action name                 | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-----------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 5.1.1 Pressure value Supply | PSI  |     |     |         |         |         |         |         |
| 5.1.1 Pressure value Return | PSI  |     |     |         |         |         |         |         |

Chapter: Check value hour counter

Cycle: 4 Months

Work:

| Action name                       | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-----------------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 5.1.2 Readout of the hour counter | h    |     |     |         |         |         |         |         |
| 5.1.2 Date of last check          |      |     |     |         |         |         |         |         |

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|--|------------------------|--------------|
| <b>Chapter: Check of the Helium level and boil off</b> | <b>Cycle: 4 Months</b> | <b>Work:</b> |
|--|------------------------|--------------|

| Action name               | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|---------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 6.1 Helium level          | %    |     |     |         |         |         |         |         |
| 6.1 Date of last check    |      |     |     |         |         |         |         |         |
| 6.1 Date of last refill   |      |     |     |         |         |         |         |         |
| 6.1 Liters of He refilled | l    |     |     |         |         |         |         |         |
| 6.1 Boil-off              | ml/h |     |     |         |         |         |         |         |

|                                   |                        |              |
|-----------------------------------|------------------------|--------------|
| <b>Chapter: Checks 8 Months I</b> | <b>Cycle: 8 Months</b> | <b>Work:</b> |
|-----------------------------------|------------------------|--------------|

| Action name                            | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|--|------|-----|-----|---------|---------|---------|---------|---------|
| 2.3.1 Fan(s) of the Reconstructor      |      |     |     |         |         |         |         |         |
| 2.3.2 Dust filters and fans BDAS       |      |     |     |         |         |         |         |         |
| 2.3.3 Dust filters & fans RF power amp |      |     |     |         |         |         |         |         |
| 2.3.5 Fan units gradient system        |      |     |     |         |         |         |         |         |
| 2.4 RF cage                            |      |     |     |         |         |         |         |         |
| 2.5 Check the RF coils                 |      |     |     |         |         |         |         |         |

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|------------------------------------|------------------------|--------------|
| <b>Chapter: Checks 8 Months II</b> | <b>Cycle: 8 Months</b> | <b>Work:</b> |
|------------------------------------|------------------------|--------------|

| Action name                         | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-------------------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 8.2 The Automatic NTDAC Tests       |      |     |     |         |         |         |         |         |
| 8.2.1 Automatic BDAS procedures     |      |     |     |         |         |         |         |         |
| 8.4.1 Resonance Freq. determination |      |     |     |         |         |         |         |         |
| 8.3 RF power Amplifier measurements |      |     |     |         |         |         |         |         |
| 8.4.2 Power Reference measurement   |      |     |     |         |         |         |         |         |
| 8.4.3 Pickup-coil measurement       |      |     |     |         |         |         |         |         |

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|------------------------------------|-------------------------|--------------|
| <b>Chapter: Checks 12 months I</b> | <b>Cycle: 12 Months</b> | <b>Work:</b> |
|------------------------------------|-------------------------|--------------|

| Action name                          | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|--------------------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 2.4.1 Helium Exhaust Pipe            |      |     |     |         |         |         |         |         |
| 6.2.2 Seals Quench Switches          |      |     |     |         |         |         |         |         |
| 6.4 Check Cables at the Magnet       |      |     |     |         |         |         |         |         |
| 6.4.2 Adjust B0 circuit (option)     |      |     |     |         |         |         |         |         |
| 7.1.5 Check hydraulic system         |      |     |     |         |         |         |         |         |
| 7.1.6 Check moving cables on degrad. |      |     |     |         |         |         |         |         |

- 7.1.7 Check Patient support lights
- 7.1.8 Check Emergency stop circuit (MT)
- 7.1.9 Check Patient Support Fans (MT)
- 8.5.1 Gradient parameters determination
- 8.6 Spike check

| Chapter: Checks 12 months II            |      | Cycle: 12 Months |     |         | Work:   |         |         |         |  |
|---|------|------------------|-----|---------|---------|---------|---------|---------|--|
| Action name                             | Unit | Min              | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |  |
| 2.2.7 Visual Inspection                 |      |                  |     |         |         |         |         |         |  |
| 4.4 Clean strainers heat exch (PT 3/6)  |      |                  |     |         |         |         |         |         |  |
| 5.1.3 Check water and oil circuits      |      |                  |     |         |         |         |         |         |  |
| 2.2.1 Check stop Function               |      |                  |     |         |         |         |         |         |  |
| 2.2.2 Check door Switch (NA)            |      |                  |     |         |         |         |         |         |  |
| 2.2.3 Helium Overpressure det. Switch   |      |                  |     |         |         |         |         |         |  |
| 2.2.4 Check Gradient Airflow Circuit    |      |                  |     |         |         |         |         |         |  |
| 2.2.5 Gradient coil Temperature Sensors |      |                  |     |         |         |         |         |         |  |

| Chapter: Checks 12 months III       |      | Cycle: 12 Months |     |         | Work:   |         |         |         |  |
|-------------------------------------|------|------------------|-----|---------|---------|---------|---------|---------|--|
| Action name                         | Unit | Min              | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |  |
| 6.2.3 Check the ERDU (Availability) |      |                  |     |         |         |         |         |         |  |

| Chapter: 3.1 Mains distribution       |      | Cycle: 12 Months |         |         | Work:   |         |         |         |  |
|---------------------------------------|------|------------------|---------|---------|---------|---------|---------|---------|--|
| Action name                           | Unit | Min              | Max     | Min (D) | Max (D) | Min (%) | Max (%) | Results |  |
| From MDU to Heat Exchanger            | mOhm |                  | 180.000 |         |         |         |         |         |  |
| From MDU to Gradient Amplifier        | mOhm |                  | 100.000 |         |         |         |         |         |  |
| From SFB to Patient Table             | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to Patient Table Box         | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to Ring Frame Front          | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to Ring Frame Rear           | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to PFEI                      | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to TFEI                      | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to PICU front                | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to Cold Head                 | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From SFB to Gradient Coil Shield      | mOhm |                  | 20.000  |         |         |         |         |         |  |
| From MDU to RF Amplifier              | mOhm |                  | 100.000 |         |         |         |         |         |  |
| From MDU to NTDAC                     | mOhm |                  | 100.000 |         |         |         |         |         |  |
| From MDU to Magnet Power Supply (MMU) | mOhm |                  | 100.000 |         |         |         |         |         |  |

|                                    |      |         |
|------------------------------------|------|---------|
| From MDU to Compressor             | mOhm | 100.000 |
| From MDU to System Filterbox (SFB) | mOhm | 100.000 |
| From MDO to Monitor Console        | mOhm | 100.000 |
| From SFB to NTDAC                  | mOhm | 50.000  |
| From SFB to Magnet                 | mOhm | 20.000  |

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|--|-------------------------|--------------|
| <b>Chapter: 2.2.6 Leakage current measurements</b> | <b>Cycle: 12 Months</b> | <b>Work:</b> |
|--|-------------------------|--------------|

| Action name                             | Unit | Min   | Max    | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|---|------|-------|--------|---------|---------|---------|---------|---------|
| Measure leakage curr. at system standby | mA   | 0.000 | 10.000 |         |         |         |         |         |
| Measure leakage curr.during acquisition | mA   | 0.000 | 10.000 |         |         |         |         |         |

|                                    |                         |              |
|------------------------------------|-------------------------|--------------|
| <b>Chapter: Checks 24 months I</b> | <b>Cycle: 24 Months</b> | <b>Work:</b> |
|------------------------------------|-------------------------|--------------|

| Action name                            | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|--|------|-----|-----|---------|---------|---------|---------|---------|
| 5.1.5 Date of Adsorber Replacement     |      |     |     |         |         |         |         |         |
| 5.2 Date of Coldhead Replacement       |      |     |     |         |         |         |         |         |
| 2.7 Check for dust in Hybrid box & QBC |      |     |     |         |         |         |         |         |
| 4.1.1 Check Gradient Cables            |      |     |     |         |         |         |         |         |
| Clean Computer system                  |      |     |     |         |         |         |         |         |

|                                     |                         |              |
|-------------------------------------|-------------------------|--------------|
| <b>Chapter: Checks 24 months II</b> | <b>Cycle: 24 Months</b> | <b>Work:</b> |
|-------------------------------------|-------------------------|--------------|

| Action name                       | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-----------------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 6.2.1 Battery Date of Replacement |      |     |     |         |         |         |         |         |
| 6.3 Check DPS                     |      |     |     |         |         |         |         |         |
| 10.2 Computer Cleaning            |      |     |     |         |         |         |         |         |

|                                  |                         |              |
|----------------------------------|-------------------------|--------------|
| <b>Chapter: Checks 48 months</b> | <b>Cycle: 48 Months</b> | <b>Work:</b> |
|----------------------------------|-------------------------|--------------|

| Action name                           | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|---------------------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 7.2 Oil Filter Date last exchange     |      |     |     |         |         |         |         |         |
| 7.3 Gear wheels Date last lubrication |      |     |     |         |         |         |         |         |

|                                  |                         |              |
|----------------------------------|-------------------------|--------------|
| <b>Chapter: Checks 96 months</b> | <b>Cycle: 96 Months</b> | <b>Work:</b> |
|----------------------------------|-------------------------|--------------|

| Action name                | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|----------------------------|------|-----|-----|---------|---------|---------|---------|---------|
| 7.4 Date last oil exchange |      |     |     |         |         |         |         |         |

Module: Remote Modem

|                            |                        |              |
|----------------------------|------------------------|--------------|
| <b>Chapter: Modem Test</b> | <b>Cycle: 6 Months</b> | <b>Work:</b> |
|----------------------------|------------------------|--------------|

| Action name | Unit | Min | Max | Min (D) | Max (D) | Min (%) | Max (%) | Results |
|-------------|------|-----|-----|---------|---------|---------|---------|---------|
| Modem Test  |      |     |     |         |         |         |         |         |