

Back up plan from July in 2020

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Activities in July and August

- Safety valves control (Magnet, DR)
- Magnet helium vessel leak check (Magnet)
- Magnet He purging (Magnet)
- Magnet test at room temperature with EP-DT(Magnet)
 - power converter test
 - control test with short cut cable

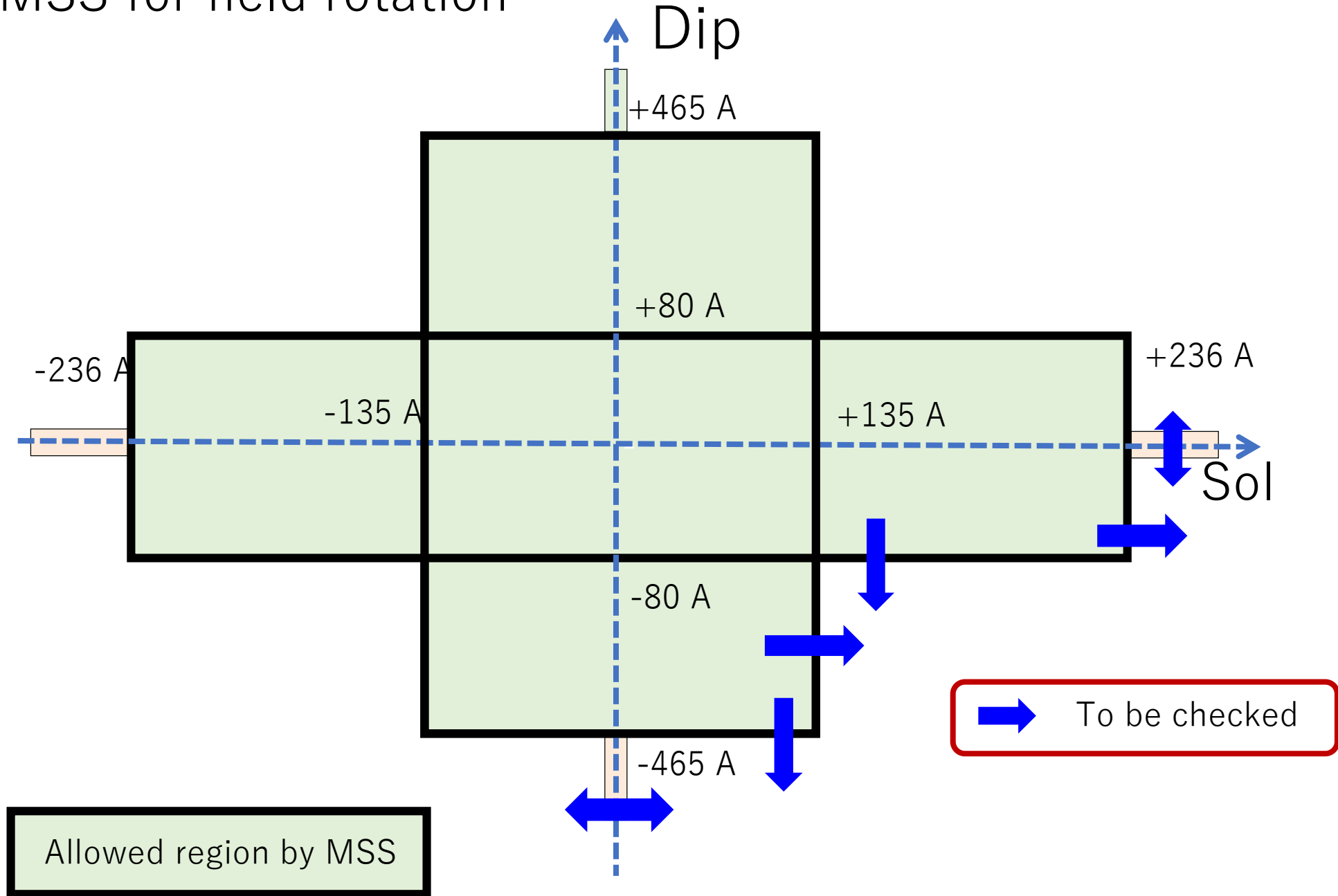
Activities in September, October and November

- Full magnet commissioning at 4 K (2 months)
 - It will save time for the 2020 run.
 - One time is enough.
 - Minimum commissioning was foreseen in the original cooling test planed from April 2020.
 - See the detail planning in the next page.
- New microwave oscillator test
 - Installation on the target platform (2 weeks)
 - Oscillation test
- Target Cell and NMR (2 weeks)
- ^4He pump maintenance
- Evacuation Pump repair

Manpower requirement

- Michael P : 2.5 months for the magnet
- Kaori : 1 week for the cell and NMR
- Gerhard R : 1 week for the cell and NMR
 : + 1 weeks for MW test
- Takahiro : 2 weeks for the MW test

MSS for field rotation



Magnet commissioning in 2020 Autumn

Magnet cooling test without target material

| | 2015 | 2018 | 2020 |
|---|--------------------|--------------------|----------|
| Solenoid: from 0 to Nominal current (both polarities @ bldg 888) | OK | OK | required |
| Solenoid: from nominal current to 0 (both polarities @ bldg 888) | OK | OK | required |
| Dipole: from 0 to nominal current (both polarities @ bldg 888) | OK | OK | required |
| Dipole: from nominal current to 0 | OK | OK | required |
| Stop procedure (before a procedure completion) | OK | OK | required |
| Longitudinal field homogeneity | OK | OK | |
| From $\pm 2.5\text{T}$ longitudinal to Transverse (both polarities) | OK | New procedure | required |
| From Transverse (both polarities) to $\pm 2.5\text{T}$ longitudinal | OK | New procedure | required |
| TE calibration procedure | OK | OK | required |
| Trim coils checks | OK | OK | required |
| Very slow discharge (through cables) | OK | | |
| Capability to recover current from a very slow discharge | OK | | |
| Fast Discharge | @ $\pm 50\text{A}$ | @ $\pm 50\text{A}$ | required |

Magnet commissioning in 2020 Spring

Minimum requirements for original cooling test plan

| | 2015 | 2018 | 2020 |
|--|--------------|---------------|----------|
| Solenoid: from 0 to Nominal current (both polarities @ bldg 888) | OK | OK | required |
| Solenoid: from nominal current to 0 (both polarities @ bldg 888) | OK | OK | required |
| Dipole: from 0 to nominal current (both polarities @ bldg 888) | OK | OK | |
| Dipole: from nominal current to 0 | OK | OK | |
| Stop procedure (before a procedure completion) | OK | OK | |
| Longitudinal field homogeneity | OK | OK | required |
| From ± 2.5 T longitudinal to Transverse (both polarities) | OK | New procedure | |
| From Transverse (both polarities) to ± 2.5 T longitudinal | OK | New procedure | |
| TE calibration procedure | OK | OK | required |
| Trim coils checks | OK | OK | |
| Very slow discharge (through cables) | OK | | |
| Capability to recover current from a very slow discharge | OK | | |
| Fast Discharge | @ ± 50 A | @ ± 50 A | required |