

Whereas the Naval Research Laboratory Contracting Officer received questions from potential offerors, the purpose of this amendment is to provide answers to questions received from potential offerors and to revise the solicitation.

1Q: What model system would CLIN 0009: (1, LO) 300 MHz 3.2-4mm Double Resonance MAS Probe be used?

1A: See Attached Magnet sheets. The 300 MHz NMR system uses a 7 T wide bore magnet. The console is a Bruker Avance DMX300, installed in 1996. The proton frequency is 300.131 MHz. The console contains a 1000 W proton amplifier, a 1000 W X-nucleus amplifier (6-243 MHz), and a 300 W X-nucleus amplifier (6-325 MHz).

2Q: Are the "optional" 500 MHz probes, Static High Power Multinuclear H⁹F)X Double Res and 3.2mm Triple Res H/F/X probes for the new system or an existing 500?

2A: All 500 MHz probes and other optional accessories will be used with the new 500 MHz NMR system.

3Q: Can you provide a brief description of the types of experiments that need to be run with the new 500 being proposed?

3A: The experiments listed in section A will be used to characterize numerous types of materials including bulk semiconductors, polymers and polymer composites, nanoparticles (metals, metal compounds, diamond, etc.), biomolecules in solution and solid state, ionic conductors.

4Q: Can you provide additional information for an Existing 89mm diameter 11.7T widebore Magnex magnet?

4A: See attached magnet sheets.

5Q: Can you provide additional information for an existing 7T WB magnet and shim system for probe under O3 (optional items).

5A: See attached magnet sheets.

6Q: Due to the complexity and scope of the BID requirements, would you please consider extending the deadline from March 11 to March 18th?

6A: The response date for proposals is extended to **March 18, 2009**, 4:00 pm, local time.

Vertical Magnet Data Sheet

General Information/Magnet Dimensions

1. Customer Naval Research Laboratory
2. Manufacturer of current console Bruker
3. Model of current console Avance DMX500 (1996)
3a. If Varian, console serial # _____
4. Magnet manufacturer Magnex
5. Magnet serial # 4143
6. Dewar/Cryostat # 500/89/AS
7. Project/Job # C4143
8. Magnet age ~10 years
9. Exact H1 frequency (2 dec pl, xxx.yy*) 500.13 MHz
10. Helium boil-off rate ~40l / 5weeks cc/hr
11. Room temp bore diameter 89 mm
12. Helium transfer tube length 2000 mm
13. Ceiling height 4145 mm
14. Centerline to bottom flange 457 mm
15. Floor to bottom flange 831 mm
16. Stand height 831 mm
17. Top flange to bottom flange 1384 mm
18. Top flange to top of He fill port 550 mm
19. Safety drop-off plate: YES NO
20. Magnet bottom plate: FLAT ROUND
21. Magnet stand bolt size: 8mm 10mm
22. Does existing system have Solids? YES NO

* #9 If microimaging, field may need to be moved - 250kHz

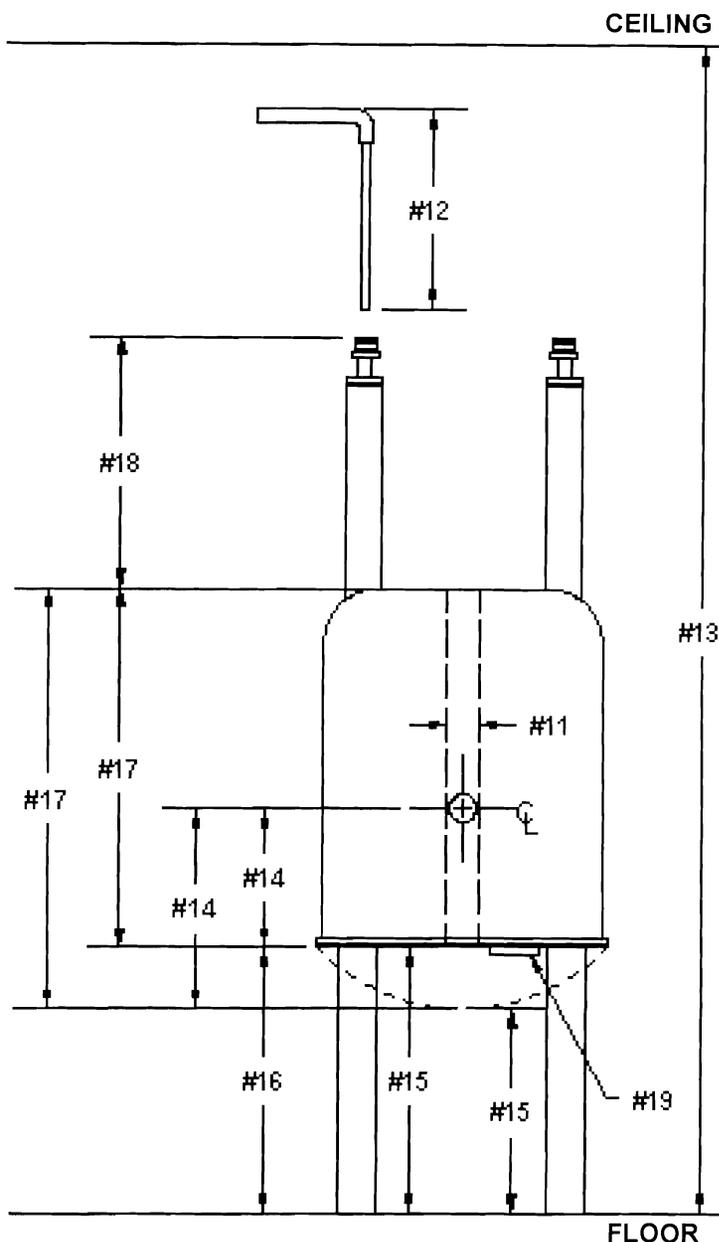
Liquids /solids may need to move -50kHz

- A. Please provide a copy of the magnet dimensional drawing from the magnet manual if available.
- B. Please provide a list of the superconducting shims and the most recent current settings or field plots.
- C. Please provide a copy of the magnet's most recent H1 lineshape test spectra, including date, scale and parameter set.

Anti-Vibration System

1. A/V system installed: YES NO
2. If installed, what type: TIRE POST TABLE X one
3. Manufacturer TMC60
4. Model # _____
5. Serial # _____

Please provide a copy of the A/V system dimensional drawing from the manual. If not available, please sketch the A/V system, including dimensions, on a separate piece of paper and attach.



#14 & 15 Note - Round or Flat bottom.

Additional Information

1. Your name _____
2. Date 17 January 2008
3. Telephone # _____
4. Additional information _____

Vertical Magnet Data Sheet

General Information/Magnet Dimensions

1. Customer_Naval Research Laboratory_____
2. Manufacturer of current console_Bruker_____
3. Model of current console_Avance DMX300 (1996)_____
- 3a. If Varian, console serial # _____
4. Magnet manufacturer_Bruker_____
5. Magnet serial #_BZH 52 30 120B_____
6. Dewar/Cryostat #_101/89/252_____
7. Project/Job # _____
8. Magnet age_____~22_____ years
9. Exact H1 frequency (2 dec pl, xxx.yy*)_300.131_____ MHz
10. Helium boil-off rate_____~40l / 18weeks_____ cc/hr
11. Room temp bore diameter_____89_____ mm
12. Helium transfer tube length_____686_____ mm
13. Ceiling height_____3028_____ mm
14. Centerline to bottom flange_____260_____ mm
15. Floor to bottom flange_____708_____ mm
16. Stand height_____708_____ mm
17. Top flange to bottom flange_____1092_____ mm
18. Top flange to top of He fill port_____483_____ mm
19. Safety drop-off plate: YES___NO_X___
20. Magnet bottom plate: FLAT_X___ROUND___
21. Magnet stand bolt size: 8mm_X___10mm___
22. Does existing system have Solids? YES_X___NO___

* #9 If microimaging, field may need to be moved - 250kHz

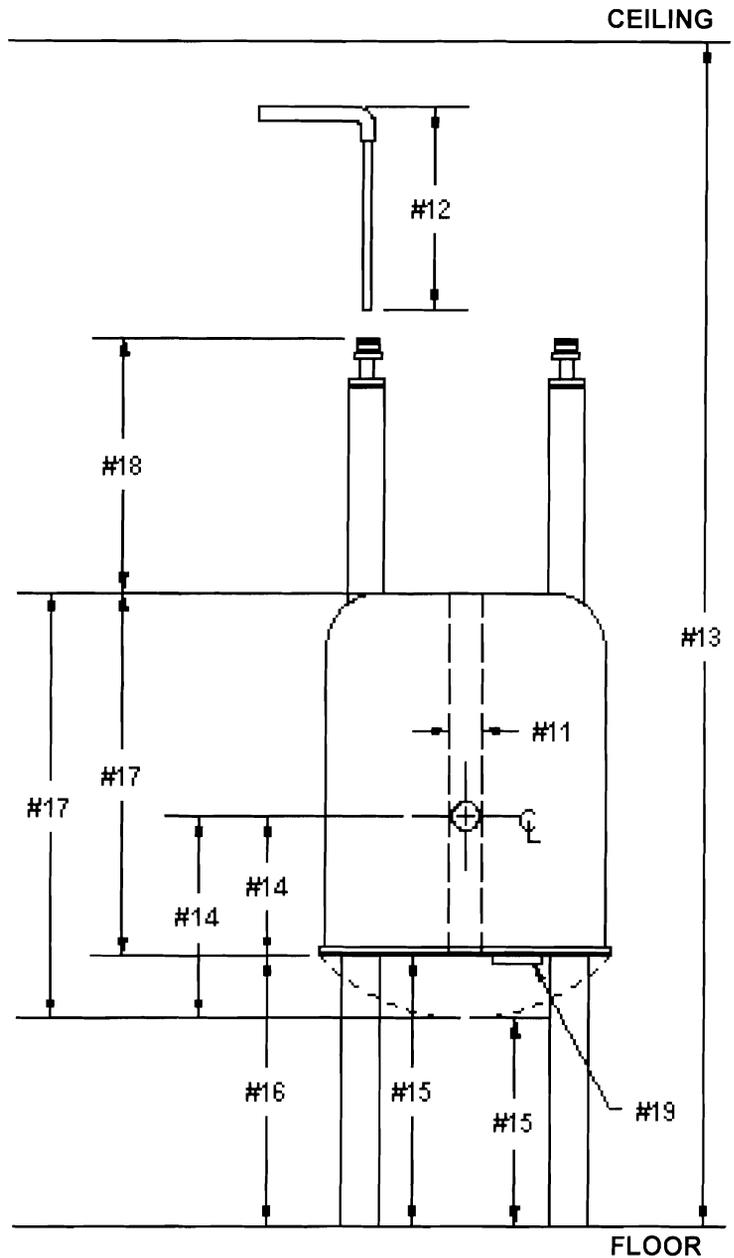
Liquids /solids may need to move -50kHz

- A. Please provide a copy of the magnet dimensional drawing from the magnet manual if available.
- B. Please provide a list of the superconducting shims and the most recent current settings or field plots.
- C. Please provide a copy of the magnet's most recent H1 lineshape test spectra, including date, scale and parameter set.

Anti-Vibration System

1. A/V system installed: YES___NO_X___
2. If installed, what type: TIRE___POST___TABLE___ X one
3. Manufacturer_____
4. Model # _____
5. Serial # _____

Please provide a copy of the A/V system dimensional drawing from the manual. If not available, please sketch the A/V system, including dimensions, on a separate piece of paper and attach.



#14 & 15 Note - Round or Flat bottom.

Additional Information

1. Your name_____
2. Date_____6 March 2008_____
3. Telephone # _____
4. Additional information_____