

*NIKITA EMELIANOV*

# STATUS OF THE MPD SOLENOID AND INFRASTRUCTURE



# START OF SHIPPING



Manufacturing team is proud to  
Ship the magnet to JINR

# MAGNET IS ON THE SHIP





# ARRIVAL TO ST. PETERSBURG



Arrival to Dubna - 3rd of November, 2020



# **REQUIRED INFRASTRUCTURE:**

- Electricity
- Cooling water
- Cryogenics

# ELECTRICITY



Main electric transformer for MPD is installed

- It is required to put it into operation and install the bus bars in the MPD hall in February 2021



Power supplies for the magnet are manufactured and tested at supplier's site.



- They will arrive to JINR on 6th of November
- Cabling should be done after their arrival

# COOLING WATER

It is required to have a cooling water circuit to cool the power supplies, copper trim coils and vacuum pumps.

Water circuit for the magnet is the part of the main water circuit for the whole Collider building which is under construction now.

**Water cooling system including the chiller stations, cooling towers, piping etc. should be provided not later March 2021.**



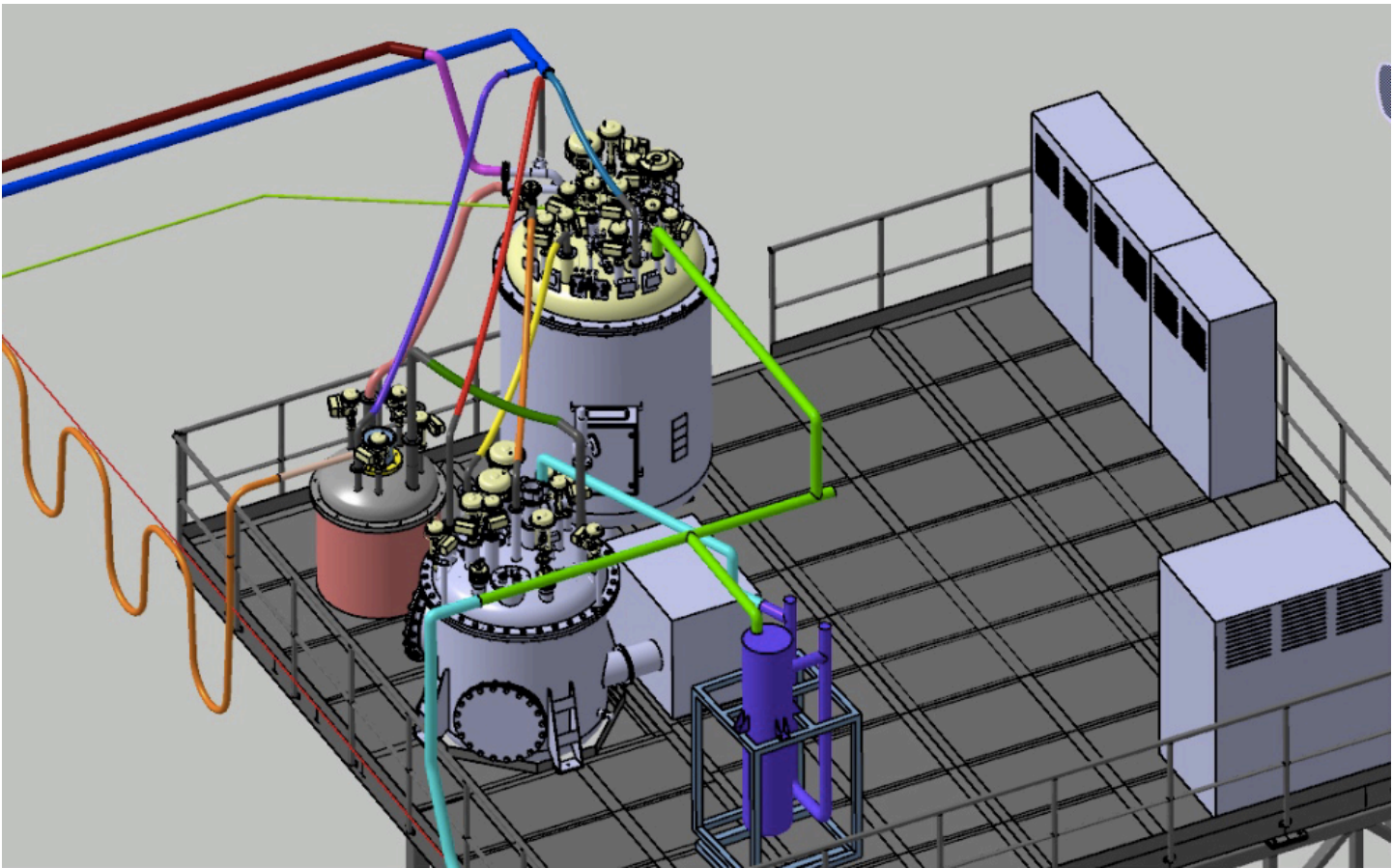
Example image



# CRYOGENICS



Main cryogenic components are manufactured and tested at supplier's site



Layout of the cryogenic equipment on the top platform of the magnet  
The outer cryogenic components are:

- LN2 tanks - under procurement
- LHe tanks - will be rented for at least 2 years
- He and N2 piping - under procurement
- Nitrogen heater - will be rented from CERN

**We involved the best cryogenic experts from JINR into the MPD cryogenics**