



1-1.OHO.TSUKUBA-SHI
IBARAKI-KEN.305-0801 JAPAN
<http://www.kek.jp/>
E-Mail: shinya.sawada@kek.jp

Dr. Derek I. Lowenstein
Department Chairman, Collider Accelerator Department
Brookhaven National Laboratory
Building 911-B
P.O. Box 5000
Upton, NY 11973-5000
The United States of America

November 21st, 2007

Dear Dr. Lowenstein,

The Japan Proton Accelerator Research Complex, J-PARC, is now under construction at Tokai, Japan. The phase-1 construction of J-PARC will be completed in the year of 2008, when its 50-GeV synchrotron will begin its operation. One of the experimental facilities is the hadron experimental facility, which utilizes slow-extracted proton beams from the 50-GeV synchrotron. Nuclear and particle physics experiments will be conducted at this facility, mainly with secondary beams, such as pions and kaons. A component of vital importance of the experimental facility is the beam lines which produce these secondary beams. In order to fully utilize the facility, we are very much interested in the components of the D6 beam line at the AGS. It would be very much appreciated if you could donate the D6 components listed below to KEK. They are to be used for the beam lines at the hadron experimental facility. In addition, we are thankful in advance for the C-AD's efforts which are also listed.

List of the components to be shipped to J-PARC:

1. 30D72 magnet with fixed position vertical collimators and variable position horizontal and vertical collimators complete with vacuum chamber and control systems
2. 18D72 spectrometer magnet with fixed position vertical collimators and variable position vertical collimators complete with vacuum chamber and control system
3. 4.5 meter Electrostatic Beam Separator #2 with associated vacuum pumps, power supplies, controls and two spare power supplies
4. 4.5 meter Electrostatic Beam Separator #1 with associated vacuum pumps, power supplies and controls
5. Magnet assembly P4-Q8,: 8D8 dipole, 12Q16 & 12Q30 quadrupoles, 12S5 sextupole, and

- 12O2 octupole without power supplies
6. Magnet assembly S4-P3: 8D8 dipole, two 12Q16 quadrupoles, two 12S5 sextupoles, and 12O2 octupole without power supplies
 7. Magnet assembly P2-S3: 8D8 dipole, two 12Q16 quadrupoles, two 12S5 sextupoles, and 12O2 octupole without power supplies
 8. N8Q24 assembly with vacuum pipe and collimator, without power supply
 9. Magnet assembly O1-P1: 8D8 dipole, 12Q30 & 12Q16 quadrupoles, 12S5 sextupole, and two 12O2 octupoles without power supplies and a 4-jaw collimator assembly complete with controls

Please note that these components have to be radiation-surveyed after rigged off from D6 and they might not be shipped to J-PARC if the radiation level is not low enough.

Work to be done by C-AD:

1. Rigging the D6 components listed above off from the D6 beam line.
2. Radiation-surveying the components.
3. Packing the components for overseas shipping.
4. Vanning the packed components to the containers which are to be arranged by the KEK side.
5. Paperwork needed for shipping.

Thank you very much for your cooperation.

Yours Sincerely,

Shinya Sawada
Associate Professor
J-PARC Project Office