

JEFFERSON LAB DATA CENTER (JLDC) Project: Building Shell

Cost Range at ECD-0: \$43M



PROGRAM, MISSION, SCOPE

PROGRAM : Advanced Scientific Computing Research (ASCR)
Location: Thomas Jefferson National Accelerator Facility (TJNAF)

MISSION NEED: To support the High Performance Data Facility (HPDF) mission, Jefferson Lab will construct a dedicated data center building. The JLDC will house the computers and equipment necessary for the HPDF. The data center will also connect to other project infrastructure components (e.g., electrical power, cooling water, communications).

PROJECT SCOPE: In conjunction with the HPDF Project, Jefferson Lab will design, construct, and commission the JLDC building shell using Commonwealth of Virginia funds. The JLDC scope will comprise construction of a warm, lit building shell (exterior walls and roof, minimal heating and air conditioning, and code required lighting and safety systems). Design and construction of the JLDC will adhere to the guiding principles of DOE Order 413.3B.

DRIVERS:

The unique nature of the HPDF, along with the potential to add new and expanded capabilities in the future. The JLDC must support large data