CERN

CERN/EF/EHS/CC/79-81
20 March 1979

Part C: STATUS REPORT

L. Ventura

FGD

The construction of the movable platform is completed and the driving motors have already been tested at CERN. The whole system has now been assembled in Turin and full load tests are taking place these very days for final OK. Installation on the experimental area will take place next month.

The last lead glass blocks have been delivered at the end of February and the 5" PM's are due to CERN at the end of March. Assembling of the detector will start at the end of April.

Hodoscope fingers cutting and polishing is near completion. The support box is under construction and the full system will be assembled in Padua during the first half of April. Its delivery to CERN is expected at the end of the same month.

IGD

A final choice has been made for the mechanical connection of the PM's to the glass bars. The new design relies on the cylindrical light guide to hold in place the iron tube which acts both as magnetic screen and support for the PM. In the previous solution with a common plate to support the PM's problems were feared for possible relative displacements between glass blocks and PM's.

The IGD movable platform is being built at IHEP. During June it shall be load tested and to this purpose the power amplifiers already in use for the PGD platform will be shifted to Protvino for a period of 2 months. The official delivery to CERN is programmed for early July and, after shipment, installation in the experimental area will start in September.

Details of the cabling inside the IGD light tight box have been worked out, with the adoption of an intermediate connector for each counter to make the wiring more flexible and the PM's easily accessible. The same solution has been adopted for the Vertex Detector box of FGD.

The full set of cables for FGD and IGD has already been delivered to CERN. Wiring of the connectors and installation will take place during May and June.

The first computer controlled high voltage unit of the DATEP type will be at CERN at the end of March and the other 11 units already commissioned will be delivered before the summer.

A delay is expected for the ADC units. Le Croy has found necessary a modification in the design of the basic hybrid chip and has postponed the delivery of our circuits from March to May. A control unit and two prototype modules have anyway been delivered last December and this allows the development of the on-line software to go on actively.

The laser adopted as basic light source for the monitoring system will be at CERN at the beginning of April and work is going on at Heidelberg and Padua to to develop optical fiber bundles with the required uniformity.

Tests are already under way on the EHS experimental floor for the flasher stability monitor, using photocells and muon Cerenkov pulses from a plexiglass block.