



ISR-GL/FB/11

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4th November 1970

ISR Running-inRun 1 - 29th October 1970

Memo to: K. Hübner - Secretary of the ISR Running-In Committee  
From : F. Bonaudi - General Layout Group

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Situation of buildings and services

The final earth shield on the ring was all in place (the contractor had finished this work on 28.7.70). Foundation and road work for the counting rooms on top of the ring embankment were in progress (during normal working hours) on points I2 and I4; over point V7 a trench for the final 18 KV supply cable to sub-station A7 was still open.

All shielding doors were fully loaded and operational. The shielding of Hall II was all in place (with the exception of a few special blocks).

The connections of the 18 KV electrical supply network were as follows:

- sub-station F + C
- a) one cable from one independent 30 MVA transformer, via Jura sub-station, supplied the main rectifier of Ring 1 and auxiliary buildings A4, A5, A6, A7
  - b) one cable from the two 30 MVA transformers, via Jura sub-station, supplied the ISR cooling plant, the SRC (main control room) and auxiliary buildings A1, A2, A3, A8
- Incidentally, all the rest of CERN was also supplied from these two 30 MVA transformers.

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Sub-station Y      One cable from Jura sub-station, supplied as b).

This connection scheme was set up by SB Division on request by ISR, with the aim of reducing rectifier-induced disturbances at the SRC and the A1 auxiliary buildings (containing the RF equipment of ring 1).

No incidents were observed during the run; however, during the afternoon preceding the run the change of connections mentioned above had caused a most annoying power interruption (automatic shut-off of vacuum valves etc.)

Max. power consumption recorded by SB Division (during run n° 2, made under identical conditions) for the whole of the ISR was 3.2 MW during the run: this corresponds to the estimates (one ring only, operating at 15 GeV/c, no correction magnets in operation).

The 18 KV emergency supply cable was not yet in operation.

F. Bonsaudi

Copies:      Director General  
              ISR Scientific Staff