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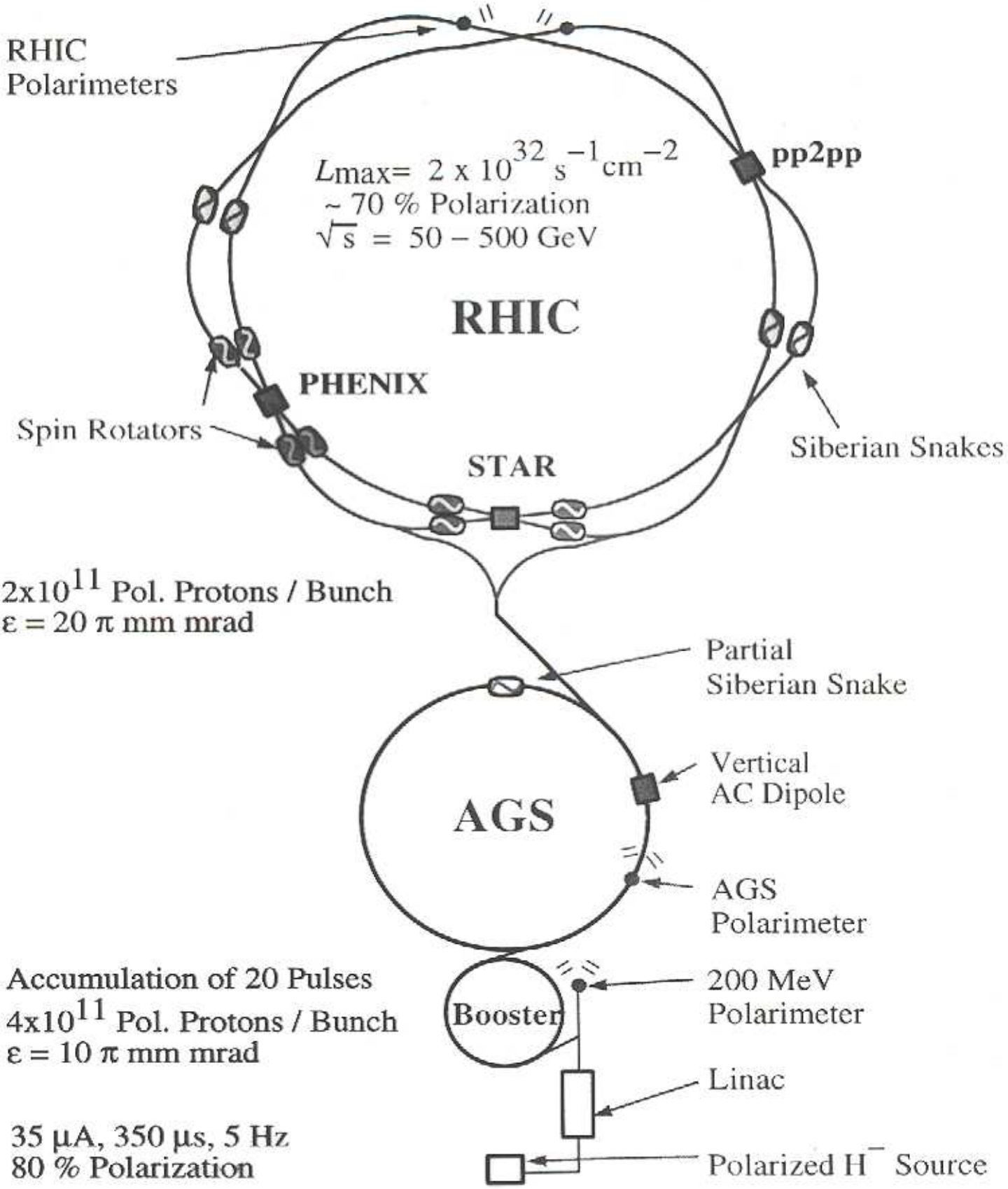
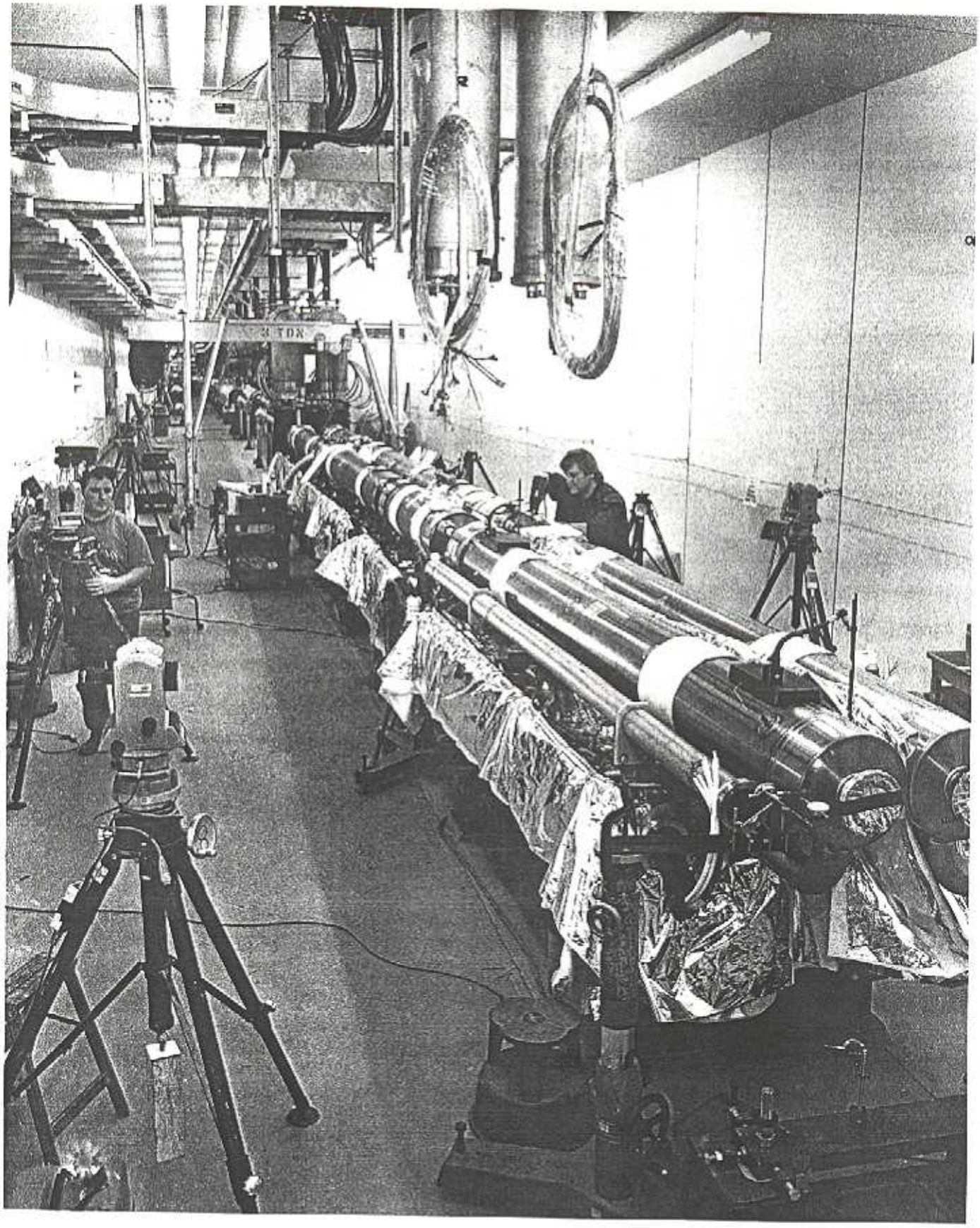
Polarized Proton Collisions at BNL

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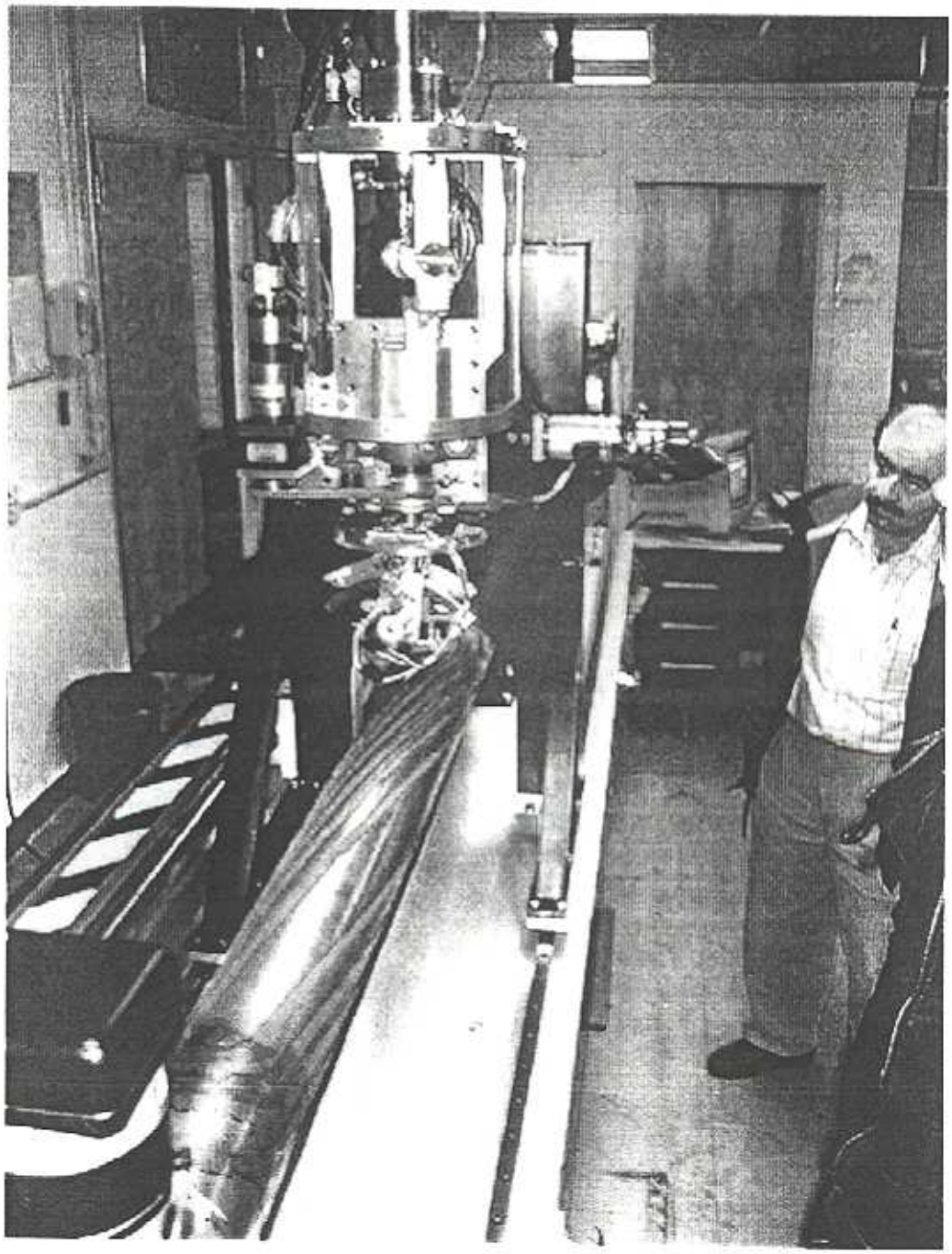

Status

Final focus triplet magnets in production, CQ1, CQ2, D0's completed. All CQ3's are in production, 62 out of 78 elements completed as of the end of March, last magnet scheduled for mid June

Large aperture dipole (DX) prototype fabricated and tested successfully. Production started magnet #1 approaching cold test. (~3 weeks behind schedule)

28Mhz RF cavities 2, 3, & 4 have been accepted and are in transit

All major power supply orders placed

Beam dump & kicker fabrication in progress

Final tunnel mechanical hardware (DX cryostats & transfer line) starts to arrive in May

Installation Status

All 8cm magnets installed, final interconnects in progress. Completion by end of April (on schedule)

Triplet lower cryostats assembled in the tunnel. Interrconnecting cold masses has started at sector 2, the first triplet.

Warm/cold transitions have started

DX lower cryostats by the end of April

External cryogenic piping in place at 2,4, 6 & 12. 8&10 start in June. Inside piping installed, interrconnecting in progress. Valve box piping complete, internal wiring started

Tunnel infrastructure:- final 2 sextants rewiring in progress, exhaust fans completed in half ring second half just starting

Security system in sectors 11 thru 5.

50A power supplies are showing up in the alcoves

Electrical work in RF, Instrumentation & beam dump areas. Generic tunnel complete

Issues

Need to demonstrate 2nd DX magnet

Cryogenic's has ~$900K FY98 problem. Will exhaust this year's contingency. RF water system $200K more than estimate.

Power supply procurement schedule remains only marginally consistent with Project. Limited initial impact - affects beam rather than hardware check-out.

Chronic inability to hire job shoppers (15 techs short at this time)

Schedule items I'm watching: -
RF cooling water, safety system installation, liquid helium storage system, valve box wiring, BPM's.