

ATLAS MPG-51

Central Solenoid Status

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PART 1: Introduction

- most work in Japan finished
- solenoid tested in Japan
- transferring equipment/documentation and knowledge to CERN
- preparing test at CERN

PART 2: Status Equipment

- solenoid, control dewar and chimney at CERN
- solenoid acceptance test done (Oct. 2001)
- valve unit at CERN
includes proximity cryogenics' valves and heaters
and a magnet instrumentation panel
- extension chimney finished, still in Japan
(only required for next year's solenoid test in
Bat.180)
- bulkhead part + chimney connection under
construction

PART 3: Transfer Documentation

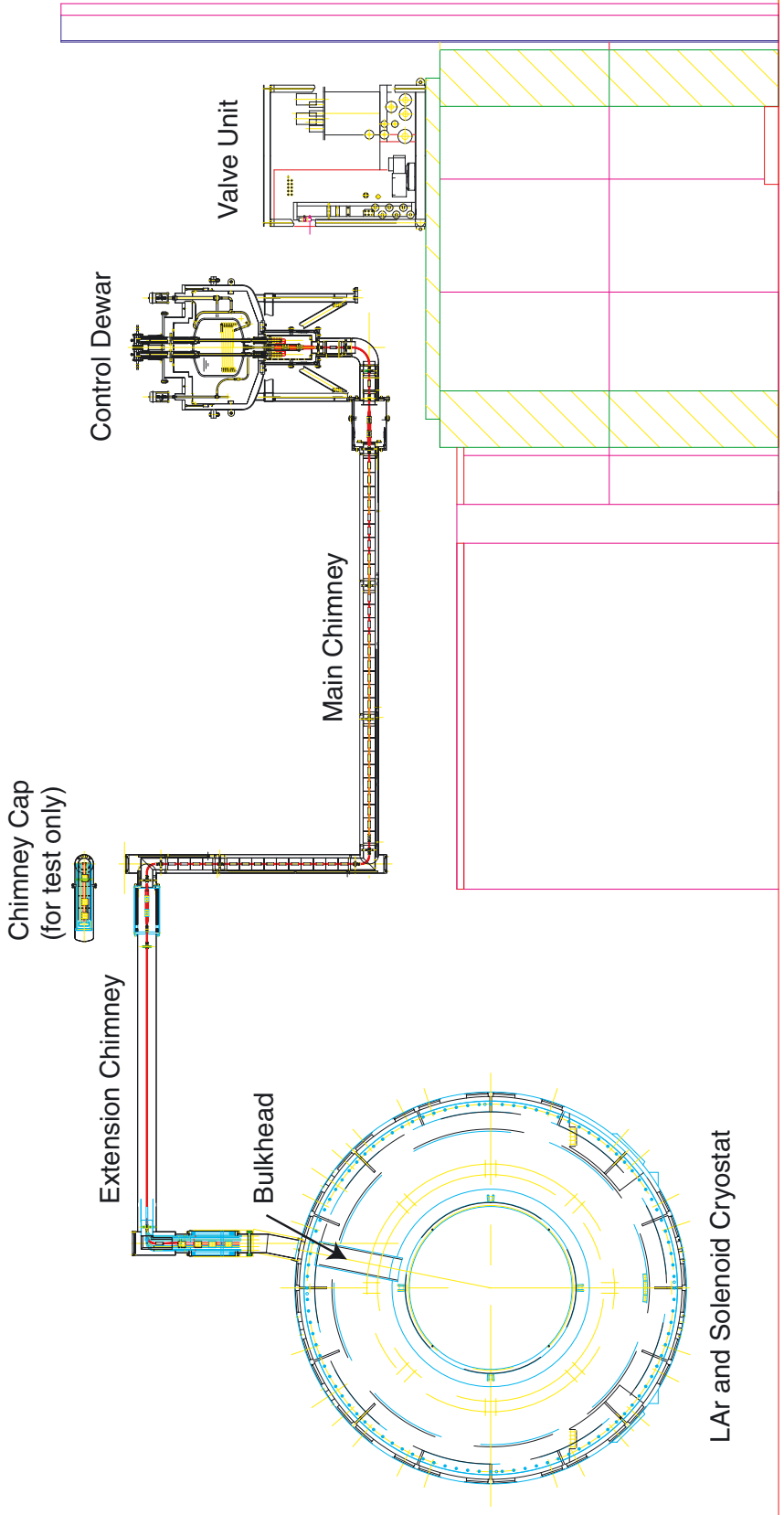
- ECR has asked for a modification of tag names
 - request to KEK in January
 - Yoshinari Kondo staying at CERN to assist
 - working on diagrams proximity cryogenics (2/3 finished)
 - then new tags on physical equipment
 - and update electrical diagrams
- ECR engineers prefer to transfer electrical diagrams to the CERN eCAD system (SEE3000)
- copy of valve unit documentation at CERN (but tags must be modified!)
- other documentation waits for update of tags (copies of some already available)

PART 3: Technical Transfer Plan

Discussed at CERN on 15th Feb. 2002 by M.Nessi, M.Norberf, F.Haug, P.Miele, T.Kondo, A.Yamamoto

- Chimney test at Bat.180 (June 2002)
 - KEK/Toshiba responsible to work on SC cabling and piping
 - CERN expert to participate in the work
- Coil installation into LAr cryostat (Spring/Summer 2003)
 - CERN experts responsible to do SC/pipe-joint work at chimney part
 - KEK responsible to work on SC bus-line and piping work in the LAr cryostat bulk-head
- Move to pit (2004–2005?)
 - CERN experts responsible to do SC/pipe-joint work at chimney part
 - KEK/Toshiba assist in the work (to watch and help)

PART 4: Test Setup in Bat.180



PART 4: Tests in Bat.180

- chimney test planned for June
 - ECR repaired and tested refrigerator
 - ECR doing installation work
 - ECR preparing cryo-control
 - TA3 preparing MCS and MSS
 - ATI preparing bus bars
 - KEK/Toshiba will do joint in middle May (including technology transfer)
 - begin June: test control and MPSU
 - end June: test cryo and chimney
- chimney test main objectives
 - test proximity cryogenics
 - test control and safety systems
 - test with current
- test solenoid planned for next year

PART 5: Integration

- integration into LAr cryostat planned for 2003
- barrel system integration discussion started

Summary

- main hardware transferred to CERN
- work on documentation in progress
- preparing for chimney test in June