# Examples of cryogenic equipment installed by AT/ECR-ME

O. PIROTTE

#### AT-ECR-ME SECTION MANDATE

- Support and expertise in mechanical engineering
- Design & integration office (ACAD, Euclid, CATIA...)
- Manufacturing facilities (workshops, welders, ...),
   Management of ECR mechanical workshops
- Design, Fabrication and Supervision for ongoing projects of cryogenic equipment's fabrication and installation
- Management (incl. specifications) of contracts for IS and ECR projects
- Technical support for the cryogenic installations in operation
- General support in cryogenics

# Main projects and installations

- Design tools management: CDD, EDMS
- Many designs, manufacturing and installations of cryogenic equipments in various locations:
  - ◆ LHC test areas: SM18, Hall 163, Block 4, SPS BA4
  - Experiment test areas: Hall 180, EHN1, EHN2, P1, P5, P8
  - Refurbishment of old installations in various build.
  - Assistance to other groups/divisions (SC, PH)
- Experiments: ASACUSA, GReC, CAST, COMPASS, CMS, ATLAS, COLDEX, + collaborations with the Cryolab (CLTF, Beam Screen TF, ...)
- (Emergency) interventions for operation (incl. other groups/divisions)

  AT-ECR-ME

  NTof 2005 06 27

## SM18 Cryo Area



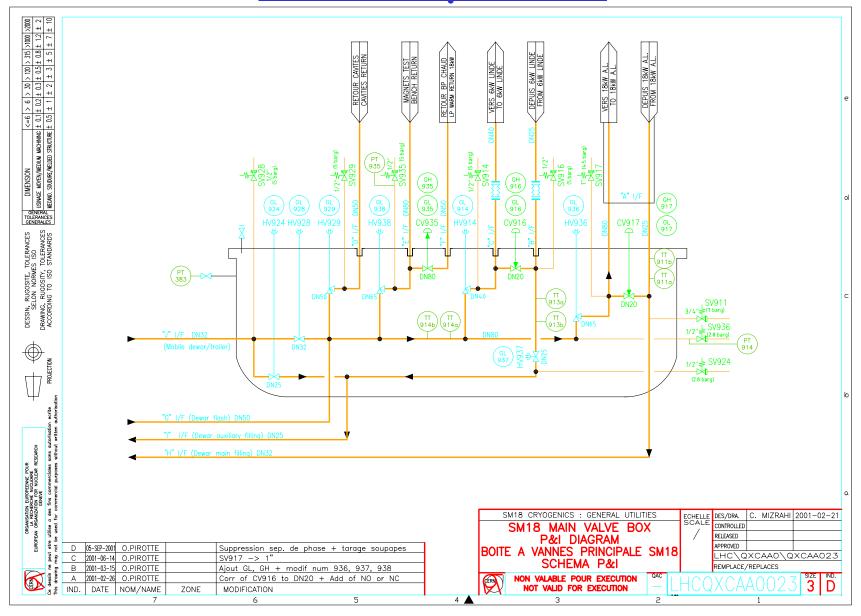


6kW Al Plant moving and refurbishing for ATLAS.

**Design and installation of new Valve Boxes** 



#### SM18 Cryo Area

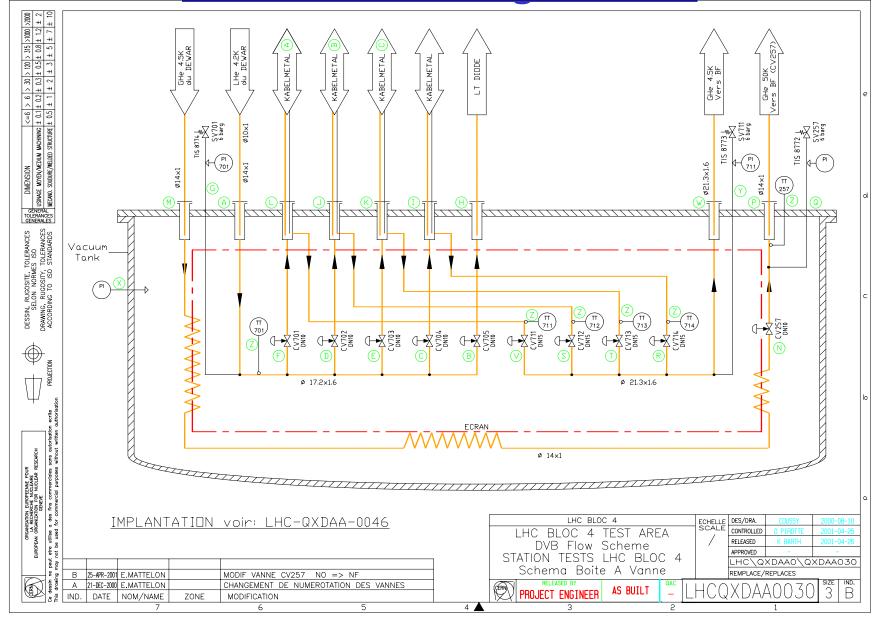


# LHC BLOC 4 Test facility



New Valve Box installation during a very short shutdown

#### LHC Block 4 Magnets TF



## LHe Discharge Station



# ATLAS Hall180 : BT Cryo Test Facility

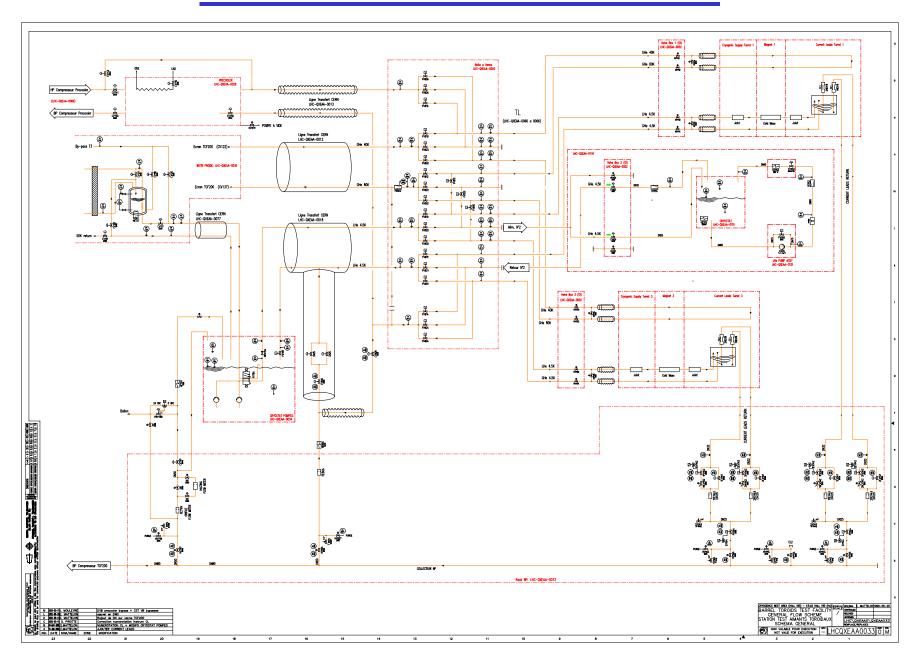


Precooler, OI VB + TLs

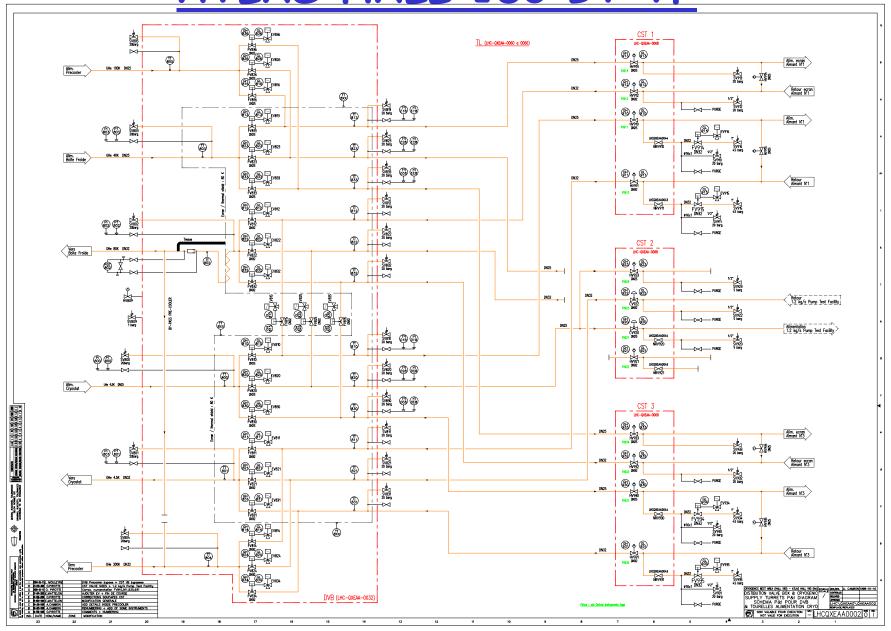
TCF200 + Pump Cryostat



#### ATLAS HALL 180 BT TF



#### ATLAS HALL 180 BT TF



# ATLAS Hall 180 : LAr TF



