

## Jaakko Koivuniemi

### 1. General planning

#### 2. Meetings with OIS

- at Tubney Woods 11th September  $\Rightarrow$  no Solo test, dump resistor quench protection, technical discussions

- technical visit at CERN 5th October  $\Rightarrow$  installation questions, helium availability, safety questions

#### 2. Platform preparation

- planning for cables, exhaust tubes, racks, cryogenic lines

### 3. PT-magnet install and test, proposed schedule

#### 4. Pump room

- welding jobs, pump electricity, leak tests, helium inventory, purging



## 5. Cryostat

- quench forces, cavity end foil, test instrumentation, target cell

## 6. Pumping lines

- mounting of gate valve on concrete wall



- Most important mile stone: testing at OIS  
Dec 2000



## 1. PT-magnet and SM1 interaction

- mechanical stress
- stability of superconducting magnet

## 2. PT-magnet and dilution share same isolation vacuum

- leak in cryostat  $\Rightarrow$  sudden warm up of magnet and cryostat
- possibility to loose expensive  $^3\text{He}$

## 3. Eddy current forces in quench

- mechanical stress may damage cryostat

## 4. High voltages and currents in quench

- the currents and voltages are external to magnet



## Availability (Klaus Barth)

- upgrade of ABB PLCs for COMPASS cold box and compressor during shutdown 2000/2001
- compressors not available until March 2001
- planning depends on final LEP stop
- backup supply of cooling water, Gerhard to communicate dates

## Alternative buying LHe from outside

- precooling LN<sub>2</sub> 3000 l × 0.3 CHF = 1 kCHF
- precooling LHe 1500 l × 10 CHF = 15 kCHF
- operation LHe 15 l/h × 10 CHF × 1 month = 10 kCHF
- quench LHe 1000 l × 10 CHF = 10 kCHF

