S1-G Module-C assembly status ILC10-Beijing GDE program – S1-G session

(Norihito Ohuchi)

S1-G Module-C assembly status

(Completed jobs: Feb. 24~Mar. 9)

• Feb. 24~28

- Cool-down/warm-up line setting and He leak test.
- 2. Checking the signal wires of T-sensors for FNAL/DESY cavities

• Mar. 1~2

- 1. Assembling 5K shield and welding
- 2. Setting T-sensors on the 5K shield and 5K thermal anchoring of input couplers

Mar. 3~5

- 1. Thermal anchoring RF cables on the 5K shield
- 2. Setting SI on the 5K shield
- 3. Assembling 80K shield and welding
- 4. Setting T-sensors on the 80K shield and 80K thermal anchoring of input couples

Mar. 8~9

- 1. Checking the signal wires of T sensors on the 5K and 80K shield
- Setting SI on the 80K shield

• Feb. 24~28

- Cool-down/warm-up line setting and He leak test.
- 2. Checking the signal wires of T-sensors for FNAL/DESY cavities



Signal wires for DESY/FNAL cavities



Temperature sensor for Piezo

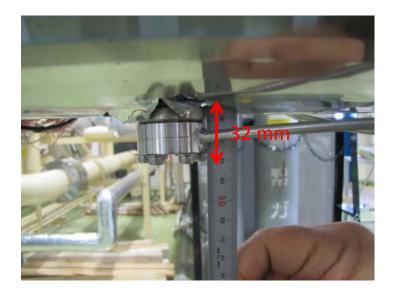


Assembling cool-down/warm-up pipe



Temperature sensor for Piezo

Connection flange size problem between FNAL and DESY cavities



Connection flanges for DESY cavities



Connection flanges for FNAL cavities

Size of the assembled connection flange are not coincident.

The height of the assembled flanges for DESY cavities from the He jacket is 32 mm.

The height of the assembled flanges for DESY cavities from the He jacket is 41 mm.

The INFN/Zanon 5K shield has interference with the FNAL flanges. Then the holes on the 5K shield were processed.

• Mar. 1~2

- Assembling 5K shield and welding
- 2. Setting T-sensors on the 5K shield and 5K thermal anchoring of input couplers



Assembling 5K shield



Welding of 5K shield.

After welding, all bolts were dismounted.



Making holes for FNAL cool-down pipe connection



Connection of 5K thermal anchors to 5 K shield. Indium sheet was sandwiched. T-sensor is Cernox.

Mar. 3~5

- Thermal anchoring RF cables on the 5K shield 1.
- 2. Setting SI on the 5K shield
- 3. Assembling 80K shield and welding
- Setting T-sensors on the 80K shield and 80K thermal anchoring of input couples 4.



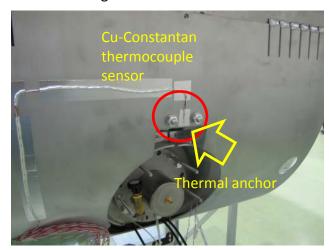
Thermal anchoring RF cables on the 5K shield



Assembling 80 K shield



Setting SI on the 5K shield



Setting T-sensors on the 80K shield and 80K thermal anchoring of input couple 32th S1-G Webex meeting

• Mar. 8~9

- 1. Checking the signal wires of T sensors on the 5K and 80K shield
- 2. Mounting SI on the 80K shield

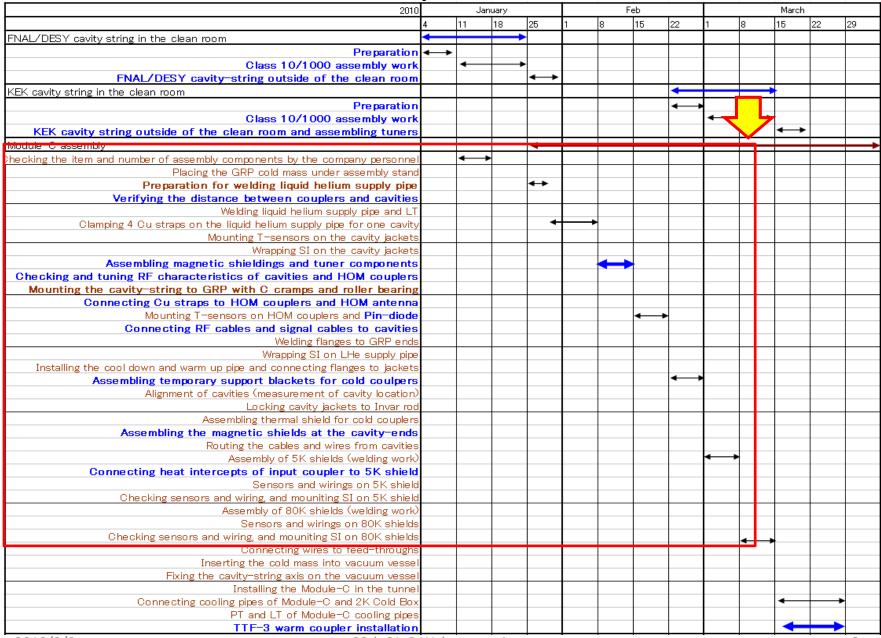


Thermal sensors on the 80K shield (Cu-Constantan thermo-couples)



Mounting SI on the 80L shield

Assembly Schedule



ILC10-Beijing GDE program – S1-G session

–Global Session	
Norihito Ohuchi, Paolo Pierini, Tag Arkan	
Tom Peterson	
12:00)	
Subject	Presenters
S1–G Cryomodule assembly status	Norihito Ohuchi
S1–G Cavity assembly status	Eiji Kako
S1–G RF preparation	Shigeki Fukuda
Coffee Break	
Proposal of experoment schedule of S1-G cryomodule	Hitoshi Hayano
Cavity test plan	Eiji Kako
RF test plan	Shinichiro Michizono
Cryomodule thermal test plan	Norihito Ohuchi
1	Norihito Ohuchi, Paolo Pierini, Tag Arkan Tom Peterson 2:00) Subject S1-G Cryomodule assembly status S1-G Cavity assembly status S1-G RF preparation Coffee Break Proposal of experoment schedule of S1-G cryomodule Cavity test plan RF test plan