

Dear all,

I would like to hear back from you that if it is OK to start 8PM on Wednesday evening in East coast = 9AM Thursday in Japan = 8AM Thursday in Taiwan. Let me know if you have difficulty in this meeting time from next meeting on.

Here are the minutes of the INTT meeting today.

o BNL Assembly <Milan> ----

- Ladder assembly is in the mass production mode. There are some inefficient chips, but we'll continue assembly without attempting to fix them.

- Itaru was informed from Yamashita co. regarding the inspection of HDIs. After Itaru investigated a couple of non-destructive approaches, he concluded that there is no trivial way to inspect the quality of thruholes without destroying HDIs. Nevertheless, they are scratching their heads to explore any other possible non-destructive methods. One of the approach they are investigating is to measure the copper plating thickness (like lands of thruholes, perhaps) of the front and back layers to see if there is unbalance between them as the thruholes indicated. It is not clear to Itaru yet how they can measure the copper thickness even on the surface layer. Itaru will have an online meeting with Yamashita co. next Tuesday. Thus Itaru is still hesitating to export batch-1B HDIs to Taiwan and BNL.

- Due to the end of Japanese fiscal year approaching towards the end of May, shipping packages to overseas is not permitted in RIKEN. Thus the stave shipping can only be arranged in April. Itaru investigated any get around solution though, it was found that the only regal way is to carry staves by an international traveler. However there is nobody planning to travel to BNL/Taiwan from RIKEN in March.

o Progress Report <Itaru> ----

- Visited Asuka co. with Takashi and investigated the leak issue together with them. The twist test which Itaru proposed appeared to be insensitive to find a potential leak joint between the carbon and SUS tubes, because the SUS tube is glued to the body of the stave itself. This means, even if a stave survives the twist test, it doesn't necessarily secure the firm joint between carbon and SUS tubes. Itaru turns down the proposal to do the twist test to select good staves. The high pressure and thermal cycle would be the best way to find a stave which has a potential to leak.

- The flatness in the 2nd batch is certainly improved by get rid of clamps while curing the glue in the CFRP assembly process.

o Assembly update in Taiwan <Cheng-Wei>

- The setup for the leak test is ready. **Cheng-Wei** will report the outcome of the test in the next meeting.

o Test Bench Activities in NWU <Takashi> ---

- Received the ladders from BNL. Also the dark box has been delivered. **Takashi and**

NWU crews will setup test bench to get ready to take a cosmic ray test for a full ladder while they are waiting for the source test fixture to be delivered.

Best regards.

-itaru

On 2021/03/17 7:21, Itaru Nakagawa wrote:

Dear all,

We will have the INTT weekly meeting. Note the starting time changes by one hour since DST started in the east coast.

March 17th Wednesday, 9PM in Eastern time = 18th Thursday 10AM in Japan = 9AM in Taiwan

*indico

<https://indico.bnl.gov/event/11067/>

*BlueJeans

<https://bluejeans.com/259237842>

Best regards,

-itaru

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