

From: [Richard Davis](#)
To: [Edwin Koh](#); [Christine Smith](#)
Cc: [HuaZhen Luo](#); [Desmond Ann](#)
Subject: RE: CPSM Upgrade
Date: Wednesday, 28 October, 2020 20:06:49
Attachments: [MicrosoftTeams-image.png](#)
[MicrosoftTeams-image \(1\).png](#)

Hi Edwin,

I have a couple comments about Venture's Tester setup that we should consider.

1. Venture is using a very flexible/configurable work bench. But I don't think they are being used in an ergonomic fashion. Especially with the solvent waste container located in front of the keyboard. We can help them do better.
2. The 1U PC being used in this upgrade should fit nicely in their bench setup if they can provide a shelf just above the Interface Box. If so there will be no need for Item 19 on the BOM.
3. The Touchscreen Monitor will virtually eliminate the use of the keyboard and mouse. We recommend it be mounted on an articulating arm and located just above the UUT. See the attached photos. Most of our testers are already using a monitor arm, so I did not include this on the BOM. You should be able to source locally and include this in your BOM.
4. The Shadow Board will be mounted directly behind the UUT. It can be mounted to the same structure as the Monitor Arm.
5. I have no direct contacts for the companies we are buying from. They all have internet websites and can be contacted for purchasing information and preferred local distributors.
6. An IQ will be required before the test system is in compliance and ready to be used for production. Emma Pierce will be coordinating the execution of the IQ.

Regards

Rick

From: Edwin Koh <Edwin_Koh@waters.com>
Sent: Tuesday, October 27, 2020 6:24 PM
To: Christine Smith <Christine_Smith@waters.com>
Cc: Richard Davis <Richard_Davis@waters.com>; HuaZhen Luo <HuaZhen_Luo@waters.com>; Desmond Ann <Desmond_Ann@waters.com>
Subject: RE: CPSM Upgrade

Hi Christine,

Please find attached. Could you or Rick confirm if these are all the items required and I can route for the approval.

For the Super Logics PC and Startech, do your side have a contact person that we can liaise with? We try to see if all purchased parts can be something we can locally source.

On a side note, could you advice for 2 x upgrade planned for Arc FTN transfer to Flex, when could Milford complete the upgrade and send us the 2 x system so that we can put timeline for the transfer? One aspect that we need to consider is validation of the testers given it has been

upgrade.

Thanks and Best regards,
Edwin

From: Christine Smith <Christine_Smith@waters.com>
Sent: Friday, October 23, 2020 18:52
To: Edwin Koh <Edwin_Koh@waters.com>
Cc: Richard Davis <Richard_Davis@waters.com>; HuaZhen Luo <HuaZhen_Luo@waters.com>;
Desmond Ann <Desmond_Ann@waters.com>
Subject: RE: CPSM Upgrade

Hi Edwin - we have the capital to upgrade all CPSMs in Milford, so the 2 to be transferred to SG/CM are already covered in Milford's Capex. Our plan is to upgrade all NPI testers before the end of the year, ready to transfer in Q1.

I believe Rick will suggest we upgrade all CPSM testers, my understanding is that SG/CM have 8 total. We should coordinate plans to upgrade all. Start this year and finish in 2021.

Thanks,
Christine

From: Edwin Koh <Edwin_Koh@waters.com>
Sent: Thursday, October 22, 2020 6:42 PM
To: Christine Smith <Christine_Smith@waters.com>
Cc: Richard Davis <Richard_Davis@waters.com>; HuaZhen Luo <HuaZhen_Luo@waters.com>;
Desmond Ann <Desmond_Ann@waters.com>
Subject: RE: CPSM Upgrade

Hi Christine,

Good day!

Yes, we have capex, about \$20K allocated for Arc FTN final testers which can be used for this upgrade.

From our plan, we need about 4 x Arc FTN final testers. Think 2 x are to be transfer in Q1 from NPI so maybe we can upgrade those first.

Do you want us to raise a capex for 4 x Arc FTN final testers upgrade?

On the local sourced items, let me review the list with my team and come back by next Wed.

Thanks
Edwin

From: Christine Smith <Christine_Smith@waters.com>
Sent: Friday, October 23, 2020 02:12
To: Edwin Koh <Edwin_Koh@waters.com>
Cc: Richard Davis <Richard_Davis@waters.com>
Subject: CPSM Upgrade

Hi Edwin – Jaaffar mentioned that you may have some capital money available this year. Would you like to spend it on upgrading CPSM's?
I've attached the BOM, we could review and see which components make sense for your team to source locally.

Please review and let us know how you would like to proceed.

Best Regards,
Christine

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