XRN5567 – BER Progress Update

eChMC – 16th June 2023

Why are we here?

- At the June Change Management Committee we indicated that the BER was imminent, based upon the receipt of the IA
- This meeting was to approve the BER

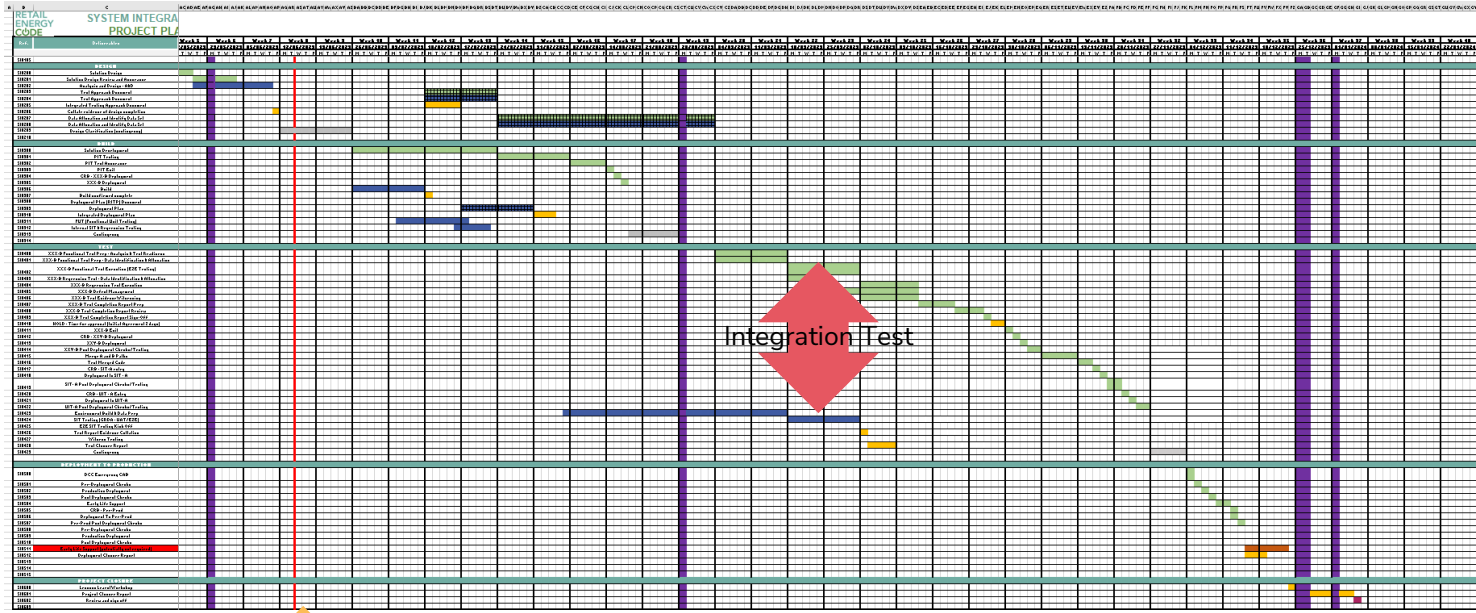
- We had an urgent need to get approval from ChMC so that we could keep the integrated R0067 plan on track

- The IA indicated that the development time was significantly longer than the previous plan
- The late re-design means that:
  - We haven't started when we expected to
  - We have a materially different plan following the IA

- If we are to keep R0067 on track for implementation in December 2023 – we need to take a different approach
- If we don't do December '23 we expect that the delivery of R0067 will occur late 2024, potentially later due to electricity Half Hourly Settlement we need to take a different approach....

Integrated Plan 1.0

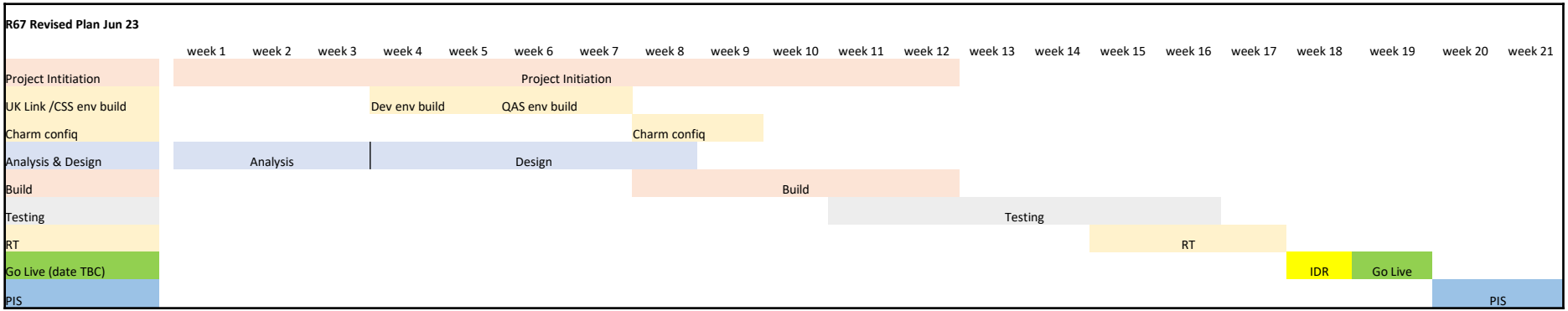
- Some key points from the initial baselined plan
- Activities should have been done by now
- **One** key critical integration activity – integration test
- Otherwise material periods of GRDA inactivity
- Planned early GRDA implementation



- Integration Test was planned for 2 weeks w/c 18th Sep 23 (week 22 and 23)
- **We are at week 8 now**

Our latest view of the GRDA plan

- Our Plan v2.0



  - We have insufficient time to get to e2e testing (NB: this plan does not include any mobilisation activities)
  - We have met with CSS / DCC and the REC CM (RTS) to detail this revised plan
  - An alternative approach is NOT to conduct e2e testing; this removes formal integration points, so the plans can progress largely independently
  - Due to ‘CSS’ Tail (their promotion of Code through their environments) there is time to meet implementation

  - **This is not without risk, but we think that this can be mitigated, but we want ChMC view**

What are our proposed mitigations?

1. We do not initiate our design stage until we have received the CSS Design, we have commented and we have received a baselined version of the design.
    a. We expect to see the CSS design – and have an opportunity to review and comment on the design, and changes that are necessary will be incorporated.
2. We assume that there will be no material changes in the final baselined design from the preliminary design that we received at the start of May, for which Xoserve and Correla attended the walkthrough. We noted that this design was reasonably complete albeit high level, and the only further elaboration that we were expecting was the definition of error messages, but the principle of the error message treatment was discussed in the meeting and we were satisfied that the approach was reasonable. We expect that the detailed design will also follow the principles defined in the preliminary design regarding the GRDA to CSS API content; and that the CSS to GRDA responses will follow the same design as the original design and the preliminary design.
3. We are expecting that with the removal of formal e2e testing that there will be greater focus on the CSS testing phases which will be conducted in a collaborative manner – in that test plans and scope will be defined and provided for review to the GRDA. Changes / additional tests that are determined as necessary by the GRDA will be incorporated. In the event that test scope / outcomes are in dispute, RTS will arbitrate.
4. We are expecting to see test outputs and will be able to comment on the testing outcomes – which may result in test re-execution. This test documentation will define the base data; the expected outcomes and the actual outcomes of testing. In the event that test scope / outcomes are in dispute, RTS will arbitrate.
5. We are expecting that the simulators will be updated so that we can conduct some testing against the revised code on these simulators within the lifecycle of the project.
    a. *Note: I think that the key risk with the approach is that this testing will be after the CSS have progressed their Code through promotion to the further environments (as per the existing 'tail' in the plan). The mitigation in 3 and 4 should significantly reduce the likelihood of this occurring – but this risk remains and we need to define the approach for any defects found once CSS have progressed the code through the 'tail'. We assume that this will be picked up in PIS/ELS as a production fix.*
6. *We are expecting that the RTS Tech Assurance activities will be completed during week 18 whilst implementation planning is being undertaken.*

What does this change for the BER?

- We are working hard to get a revised BER?

- Costs:
  - Previous quoted Dev Cost was £73k
  - Revised Dev Cost is now [£149k and 172k]
  - Due to risk of lack of baselined design we are proposing a 10% Dev Cost Risk (£[17k])

- We are still working through the approach with REC CM and with our Service Providers – so we are unable to present this today
- We *probably* have sufficient time to get approval in July – so long as we can mobilise straight after the ChMC
  - We propose to circulate the BER in advance of the ChMC so that we can field any questions and respond (to all Change Managers – with a view to have confidence that July ChMC obtains approval
  - IF this changes once we have conducted detailed planning, we will circulate for ex-Committee approval (sorry!)