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| https://upload.wikimedia.org/wikipedia/en/f/fd/Western_Washington_University_Logo.png  Electrical Engineering | **Engineering Change Description**  EE 492 – Project Hardware Design | | Page:  \_\_1\_\_ of \_\_3\_\_ |
| Project Name: RFIDiceBoard | | Revision: User Req. 1, System Requ. 1.0 a | |
| Reason For Change: 8 Hours is a long time for a 270mAh battery to run an RFID sensor and a TFT display. It is also a long time for a game session. Most players would charge their phone in that time, so it’s not unreasonable to expect them to charge the RFIDiceBoard as well. | | |  |  |  | | --- | --- | --- | | Source | Signature | Date | | Originator |  |  | | Instructor |  |  | | |
| Description of Change:  Change the requirement from 8 hours to 4 hours. | | | |

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| https://upload.wikimedia.org/wikipedia/en/f/fd/Western_Washington_University_Logo.png  Electrical Engineering | **Engineering Change Description**  EE 492 – Project Hardware Design | | Page:  \_\_2\_\_ of \_\_3\_\_ |
| Project Name: RFIDiceBoard | | Revision: User Requ. 1 System Requ. 2.0 a | |
| Reason For Change: The Lipo battery is rechargeable, no need to replace it for hundreds of charges. | | |  |  |  | | --- | --- | --- | | Source | Signature | Date | | Originator |  |  | | Instructor |  |  | | |
| Description of Change: The battery of the RFIDiceBoard shall be rechargeable. | | | |

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| https://upload.wikimedia.org/wikipedia/en/f/fd/Western_Washington_University_Logo.png  Electrical Engineering | **Engineering Change Description**  EE 492 – Project Hardware Design | | Page:  \_\_3\_\_ of \_\_3\_\_ |
| Project Name: RFIDiceBoard | | Revision: User Req. 7 System Req. 1.0 a | |
| Reason For Change: The RP2040’s real time clock has seconds as its highest frequency change. The ROTC has a random bit made for random number generation. It makes a lot more sense to use a random bit than a 1Hz clock to generate a random number. | | |  |  |  | | --- | --- | --- | | Source | Signature | Date | | Originator |  |  | | Instructor |  |  | | |
| Description of Change:  The random number generated by the RFIDice Tray shall be generated by a Wichmann-Hill generator and OR’d with a 32 bit random number generated by the RP2040’s ROTC random bit generator. The random bit generator has a higher frequency of change than the | | | |