

To: LFEVY42016 Team  
From: Geoff Nudge  
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Subject: QAR001f - Delivery of one Complete Accumulator

## Abstract

This QA test involves inspection for the completeness of documentation and the physical delivery of a tested accumulator. Documents that are checked are Maintenance Manual, User's Manual, BOM for PacMan, BOM for an accumulator, schematic for PacMan, and wiring diagram from an accumulator.

## Technical Findings

Acceptance tests for an accumulator failed due to the lack of implementation of certain features of the display and controls. More details can be found in the Acceptance Test Report for Item 5 which is available at the following address:

([https://sites.lafayette.edu/ece492-sp16/files/2016/05/Acceptance\\_Test\\_Report\\_TSV.pdf](https://sites.lafayette.edu/ece492-sp16/files/2016/05/Acceptance_Test_Report_TSV.pdf))

The accumulator successful makes all state transitions and provides TSV power when appropriate.

## Recommendations and Conclusions

ATP lists the follow with regards to delivery of one complete accumulator:

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1. Annotated photographs of wiring harness.
2. Documentation (Maintenance, User's Manual, BOM, etc.)
3. Demonstration of System States, and availability of TSV power

A wiring diagram of the accumulator, PacMan schematics, maintenance manual, user manual, and bills of materials are available on the website at the following address:

<http://sites.lafayette.edu/ece492-sp16/test-result-documents/>

System states and TSV power were successfully demonstrated with acceptance testing (see above link). The accumulator is in a usable state, and 3 additional pack may be assembled with this design for use with the motor and motor controller. A list of errata is available at the following address:

<http://sites.lafayette.edu/ece492-sp16/documents/>