HIGH VALUE
MANUFACTURING

CASE STUDY

New RESS Battery Assembly Line: Installation, Debug & PPAP

RESULTS

- ✓ ON TIME: Successful completion of install, debug and PPAP on schedule.
- ✓ SORP: Achieved Start of Regular Production per schedule with one variant, resulting in a line fully PPAP'ed for second variant, with SORP in the near future.
- ✓ SAFETY: All safety requirements successfully met.
- ✓ TEAM: Fostered an environment where team members felt supported, valued, and thus equally committed to the overall success of the project.

ASSIGNMENT

Oversee completion of the install, debug, and PPAP of a new RESS battery line for one of the largest automotive OEMs in North America. This required stepping in mid-project to redirect client team, providing a clear path to a successful launch.

CHALLENGES/TASKS

> Lack of clear direction in meeting launch requirements and existing workforce with limited RESS assembly/manufacturing experience.

> Facilitated daily collaboration via formal and informal meetings with all parties: Operations, Maintenance, OEM, and Contractors.

> Ensured that BOP (Bill of Process), PFMEA (Process Failure Mode Effects Analysis), PFCM (Plant Floor Change Management), and Error Proofing processes were properly followed.

> Consistently tracked progress and developed countermeasures where required.

> Managed qualification (MRO and PPAP) and launch of assembly equipment into production.

> Co-managed on-going CI (Continuous Improvement) after SORP to improve JPH (Jobs Per Hour) and line efficiency.

> Safety: Proper care was critical in processing the battery through the assembly line without endangering those exposed to high risk factors. Ongoing safety training and reminders were crucial to prevent accidents.