

Case Study

Samsung Americas Taylor Fabrication Facility



Application

Samsung Americas' construction of their new state of the art solid state microprocessor manufacturing facility designed in accordance with operating specifications that required large scale, multi-level, continuity of medium voltage power, provided an opportunity for unique applications of electrical service bridging between redundant and backup sources. Spike Electric Controls, with its robust design standards and accelerated design, procure, and delivery to market, developed the SafeSync ATS UL 1008A listed system that could be tailored to fit all the needs of Samsung's facility design team while meeting the compressed delivery schedule.



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Challenges

Due to a hyperbolic global demand increase in the manufacture of microprocessor devices, Samsung facilities required an accelerated design-build effort to meet this product demand. Spike Electric's experience in performing unique and innovating industrial customer solutions perfectly fits the need to fill the gap that other providers could not. Interpreting the engineering requirements, identifying, and initiating procurement of long lead-time components, and ensuring that the resulting design composition was acceptable to the Samsung Operations was only part of the effort. Simultaneously, the Spike engineering team coordinated the compliance to the rigorous process of meeting the requirements of UL 1008A which specifies the performance and safety of automatic transfer systems., ATS, rated at 1000V or higher. Spike's Project management team flawlessly managed supplier delays, specification revisions, and manufacturing challenges to meet not only the milestone delivery points for the end user, but also the scheduling requirements imposed by the limited resources to perform large electrical power testing at certifying accredited laboratories.



Solution

Spike manufacturing 's experience as a certified and preferred OEM for ABB, provided the confidence required to meet the challenge of incorporating additional resources and extended production hours to deliver 16 Safesync 15kV 1200A 50kA UL listed ATS units that were preprogrammed and ready for commissioning at installation. Meeting and exceeding the customers delivery terms allowed construction site efforts to maintain their tight schedule and milestone completions.

Conclusion

This endeavor, like all Spike Electric Controls opportunities, exemplified the value that the company brings to a customer. Providing not only satisfactory product delivery, but the customer's confidence in long-term support during that products service lifetime is the commitment that the team maintains.

