

## MANUFACTURING PLANT OPTIMIZATION

**ABOUT CRIOLITE CORP.** CRIOLITE is a purely Puerto Rican company founded in 2010. Since then, the company has consistently been the leading supplier of frozen meals without preservatives and with fresh ingredients on the market. Criolite offers Creole dishes with high standards flavor, smell and taste. From production, packaging, freezing and delivery their product is manufactured with top quality ingredients, 100% grass-fed red meat from Puerto Rico and chicken free of hormones and antibiotics.

**THE CHALLENGE.** Knowing the new business challenges that lie ahead, which include new clients/markets and acquisition of a new facility, Criolite contacted Puerto Rico Manufacturing Extension (PRiMEX), part of the MEP National Network™, to develop a facility layout plan for the new building. The current floor layout limits Criolite's growth and flexibility, a problem when seeking new clients. Criolite needs to increase capacity, efficiency, and resources utilization in the new site while also guaranteeing space for future business growth.

**MEP CENTER'S ROLE.** Criolite decided to trust PRiMEX to analyze the current state scenario, develop all flow analysis, make the design recommendations, and the implementation plan for the new facility in Las Piedras, Puerto Rico. The purpose was to start and finish all recommendations in two months because of the urgency to move the operation to the new site. PRiMEX performance consultants, delineate a five steps plan to achieve Criolite's requirements: 1) project concepts, 2) analyze current operations, 3) identify current flow constraints (from to chart, frequency diagram, current plant efficiency), 4) new flow alternatives (relationship diagram, block diagrams, various alternatives), 5) new facility layout (two possible new facility designs with projected new efficiency for the new plant).

"Thanks to PRiMEX for accepting the challenge of designing a facility model that would accommodate the new facilities. Not only were they able to achieve an excellent design for our needs, but when they received the request to do it in a short period of time, they accepted and met all expectations. The professionalism and excellent communication of their consultants were key to the success of the project. They were always available for all the details that were needed. We certainly count on them for our growth and business strategies in the near future."

-Rosa Garcia, Business Owner & President

## RESULTS



Significant reduction in people and product travel time led to an estimated **50%** efficiency increase



Cycle time decreased significantly (approx. 40%) increasing capacity to fulfill new markets needs



Increase resources utilization (direct labor) resulting in estimated **30%** cost savings



New facility design allow additional production space of **2,000** sq. ft. for future growth

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