

AMMONIA REFRIGERATION SYSTEM UPGRADE & CONTROL PANEL DESIGN FOR ENSURING FACILITY SAFETY COMPLIANCE

ABOUT THE CLIENT

EAD has served as a committed partner of a leading pet food and pet care provider since 2001. Over the years, we have provided the company with engineering, safety, and construction management subject matter expertise in projects that have ranged from designing a weather resistant roof hatch to protecting facility equipment to expanding and upgrading production lines to increase production.



SERVICES

Safety Consulting - PSM /PHA
Mechanical Engineering
Industrial Control Panels

HIGHLIGHTS

- Developed scope, budget, and schedule for ammonia system upgrade that won capital funding
- Designed custom, OSHA, PSM, & PHA compliant ammonia alarm detection system and control panels
- Coordinated with multiple contractors to ensure on-time and in-budget project completion & PSM compliance

PROBLEM TO SOLVE

Our client had received several audits requiring they update their detection system, ventilation system, equipment, and ammonia safety systems. The pet food processor asked the safety experts at EAD to provide engineering services to upgrade their ammonia refrigeration systems and ensure the safety of the pet food manufacturer's facility.

APPROACH & SOLUTION

Working directly with our client, EAD developed a scope, budget, and schedule to help our client obtain capital funding for the project. Once this was successfully received, EAD designed a custom ammonia alarm detection system that included control panels and a ventilation system that met all OSHA Process Safety Management (PSM) and Process Hazard Analysis (PHA) requirements. This customized system was directly interoperable with our client's existing safety systems. Using our in-house panel design and fabrication shop, we also customized control panels to meet the exacting requirements of our client's facility.

RESULT & BENEFIT

We worked with multiple contractors to ensure on time and in budget project completion and issue resolution. EAD provided solutions that addressed every area where safety could be improved, from updating P&IDs and tagging equipment to re-piping entire ammonia lines to the roof in order to prevent the possibility of forklift damage. We are happy to know that our high standards for our client's safety provided them with a PHA and PSM compliant and incident free workplace.

