

CLIENT: **AW North Carolina, Inc.**
 Durham, North Carolina
 Wastewater Pretreatment System Upgrade



BACKGROUND:

AWNC is a world leader in the manufacture of automatic transmissions. Generated process wastewater is high in oily solids and metals. CWS replaced a vacuum compression evaporator with duplex, ultrafiltration skids. UF is a proven technology for handling metalworking oily waste streams, and our team has extensive experience in this application.

PROJECT REQUIREMENTS:

- Reuse as much of the existing equipment as possible
- New membrane system had to fit in the space of the former vacuum unit
- Upgrade the existing system for improved efficiency and performance
 - Rearranged existing equipment for a more streamlined treatment train
 - Added specific components to enhance existing processes
- Upgraded the outdated control system



SYSTEM COMPONENTS:

- Equalization
- Oil/water separation
- pH Adjustment
- Metals precipitation
- UF membrane separation
- Flow monitoring
- Sludge storage

