In 2009 IPD was brought in to assess Tessy Plastics HVAC needs for their new 99,800 SF manufacturing facility with an eye towards creating greater operating efficiency and reducing costs. With that in mind IPD designed and installed large capacity air handling units with fabric ducts, reducing the number of units from 30 to 3 and eliminating the need to create a heavy-duct structure. In addition, high efficiencies were realized with magnet-bearing frictionless centrifugal chillers, a digital control system, water-cooled air compressors and high-efficiency condensing boilers providing dehumidification control to improve manufacturing efficiencies. Many of these techniques (among others) have since been implemented on dozens of projects IPD has designed for Tessy within five buildings across three campuses. Additionally, IPD assisted Tessy in analyzing the efficiency of their manufacturing process and were able to achieve a NYSERDA process rebate in excess of $900,000!

We have designed many projects for Tessy including:

1. South Plant (Elbridge): In 2010 we designed the MEP systems for this new 90,000sf fully conditioned manufacturing building with (2) condensing hot water boilers, (3) magnetic bearing chillers, (2) 500-ton cooling towers, (3) 60,000CFM indoor central station air handlers, process cooling water systems, fabric ductwork, fully integrated digital control system, pair of 3,000kVa transformers feeding paralleled 4,000A switchboards, 480V power distribution via buss duct. Project costs were $10,000,000.

2. East Plant (Elbridge): We have performed several projects in this building between 2009 and 2013 including an upgrade to their chilled water plant, replacement of their 60F process pumping system and modifications/expansions to multiple clean rooms. Costs for all projects were approximately $1,500,000.

3. West Plant (Elbridge): We performed several projects in this building between 2010 and 2013 including a upgrading their chilled water plant, adding condensing hot water boilers for summer dehumidification, process water pumping systems, the creation of 2 new clean rooms and upgrades to an existing clean room.

4. North Plant (Van Buren): Tessy purchased this 250,000sf warehouse building from Syroco in 2012 and had us convert 1/3 of the building to light manufacturing (assembly of plastic parts) which involved fully air conditioning the space. We designed a new electrical service, an air cooled chilled water system, a high efficiency hot water boiler system, (2) 30,000CFM indoor central station air handlers and a compressed air system to operate their assembly equipment.