JENSEN HUGHES is a global leader in specialty engineering and consulting services for the built environment. We are a company of engineers, consultants, and scientists focused on evaluating risks and diligently developing the best, most cost effective safety solutions. We offer extensive, practical experience through countless projects, research and industry innovation.

Our global clients include a majority of Fortune 500 companies and cover the following sectors: corporate real estate, education, energy, government, healthcare, hospitality, industrial, military, and transportation.

PHARMACEUTICAL FACILITIES

SERVICES FOR PHARMACEUTICALS

- Building, Fire and Hazmat Code Compliance Analysis
- Comprehensive Hazardous Materials Master Planning
- Performance / Risk Based Design
- Staff Training and Education
- Emergency Response Planning
- Fire Protection and Suppression System Design
- Hazardous Materials Inventory Statement (HMIS)
- Hazardous Materials Management Plan (HMMP)
- Process Hazard Analyses
- Regulatory Licensing Support
- AHJ and Insurer Negotiation
- Combustible Dust Hazard Evaluations

JENSEN HUGHES has worked with a vast majority of major pharmaceutical companies including:

- Pfizer (Wyeth)
- Johnson & Johnson
- AstraZeneca
- Takeda (Millennium)
- AbbVie (Shire)
- Eli Lilly
- Bayer
- Biogen
- Baxter

PROVIDING SPECIALIZED EXPERTISE RELEVANT TO EACH FACILITY’S HAZARDS

JENSEN HUGHES understands the variety of challenges facing pharmaceutical companies from start-ups to global leaders, as they look to expand operations, establish manufacturing sites, re-purpose laboratory spaces, and adapt to the changing regulatory environment. Our solutions are based on the unique hazards, materials, and processes of each project. Fire protection and life safety features are recommended based on the risks and hazards to be reduced, which ensures resources are expended efficiently.

Our engineers and consultants bring a combination of chemical manufacturing experience, chemical hazard analysis, organizational depth and geographic coverage that is not found elsewhere in our profession. Jeremy Lebowitz, JENSEN HUGHES Director of Development for Industrial and Laboratory projects, and others in the company, have chemical engineering degrees. Many of our senior engineers have done project work at chemical manufacturing and laboratory facilities. We speak the language of the facility operations and engineering staff.

LOCATION AND DESIGN OF GROUP H, GROUP L AND CONTROL AREAS

We have a great deal of expertise on the building and fire code requirements for vertical and horizontal location, occupancy separation, electrical classification, ventilation, fire suppression, fire and gas/vapor detection, and spill control/secondary containment. We are frequently involved in the early decision making process as to the location and function of high hazard process areas, as well as the architectural and engineering features for flammable liquid and flammable gas.
SPECIAL SUPPRESSION AND DETECTION

We bring systems design knowledge and experience that is directly applicable to the hazards found in a chemical manufacturing facility. We have expertise in local suppression such as foam, water mist, carbon dioxide, and FM-200, as well as specialty gas and flame detection. We are often called upon to offer our opinions on how the fire protection systems in a facility are interlocked with mechanical ventilation and alarm systems, as well as provide consulting on how these systems interact with the rest of the building and the responding fire department.

LICENSING AND PERMITTING

We are a key technical resource to owners of facilities that store and use hazardous materials, particularly for facilities whose hazards are not clearly understood outside of the chemical manufacturing industry. We clearly outline the code compliance approach for a facility and represent the owner in front of the fire department and local licensing/permitting body.

NFPA COMMITTEE REPRESENTATION

We have intimate knowledge of the latest thinking in the industry on fire protection and life safety approaches for chemical process and laboratory facilities. For example, we have senior engineers on the NFPA 30 (Flammable Liquids Code), NFPA 45 (Labs using Chemicals) and NFPA 318 (Semiconductor Fabrication) technical committees.

Other services we provide to pharmaceutical clients include:

- Process Hazard Analysis: Determining specific hazards and risks, and specifying appropriate safeguards
- Specialty Due Diligence: Assisting end-users find a suitable lab or manufacturing building that is designed to meet their level of hazard
- H-5/Clean Room: Analyzing the requirements for unique hazardous liquids and gases stored and used in a semiconductor or related clean room, laboratory or manufacturing facility
- Hazardous Electrical Classification: Helping clients understand their processes, designate electrically classified areas, and specify solutions based on necessary equipment
- Hazardous Ventilation Requirements: Building, mechanical, and fire code requirements, including allowances for exhaust manifolding, and hazard calculations for % LEL/LFL and ventilation rates, and potential reductions below code prescribed minimums
- Explosion Control: Design of NFPA 68 Deflagration Venting and NFPA 69 Explosion Control Systems
- Bio-Containment Facilities: All levels of bio containment, including BSL-4
- Combustible Dust Hazard Evaluation: Focusing on the OSHA National Emphasis Program (NEP), NFPA 654 and other related dust standards