JENNERIK ENGINEERING, INC.

## PATRICK T. GOETZ, P.E. — PRINCIPAL

Mr. Goetz has 28 years experience in the Commercial Construction industry where he has prepared master plans, prepared energy analyses, prepared contract documents, estimated and provided construction, commissioning and project management services for single buildings as well as campus facilities. Projects have included more than 1,000 renovation projects in the 5,000 to 1,000,000 ft2 range. His experience as a principal engineer in the consulting engineering field as well as a lead engineer and pre-construction manager for a mechanical design build contractor will bring a unique skill set for this significant government project.

Mr. Goetz experience in both the design and construction sides of the commercial construction field will provide real time constructability as well as cost input for all mechanical, electrical and plumbing decisions. His track record throughout his career includes project change orders totaling less than 0.5%.

***Representative Project Experience*** *(some experience while at another firm)*

- **IRS Building – 1111 Constitution Ave,** Washington, DC – 1,000,000 ft2; seven story office building; multiple renovations including replacement of electric power distribution system.

  Prime design consultant and principal in charge for design-build contracts. Occupied government IRS headquarters office facility. Multiple renovations over a three year period including fan coil replacements and replacement of 90 electric room power distribution panels. Phasing plans developed to accommodate work within fully occupied; critical function government building.

- **Armed Forces Radiobiology Research Institute** (**AFRRI**), Bethesda, MD ; 450,000 ft2 campus connected in contiguous structure – Multiple renovation contracts in occupied critical office/ research facility.

  Prime design consultant leading team of architects, environmental, fire protection, structural, mechanical and electrical engineers. All contracts delivered as design-build. All work performed in occupied facility with multiple steam, heating water and chilled water central plants. Lead development of phasing plans for all renovations.

- **Emergent Bio-Solutions**, Gaithersburg, MD; 56,000 ft2 office/ research facility.

  Six phase renovation of occupied facility. Renovations spanned a two year period. Acted as lead design consultant on this design-build project delivery. All building systems were impacted by renovations including hydronic cooling and heating systems, fire alarm, stand by power and air handling units.

- **Kelly Insurance,** Sparks, MD – 110,000 ft2 Headquarters

  Complete renovation and expansion of 90,000 ft2 existing corporate office building for Kelly Insurance new headquarters totaling 110,000 ft2. Energy upgrades for an Energy Star Facility. Full programming, design and construction administration services were provided.

- **Advanced Biosciences Laboratories, Headquarters,** Rockville, MD

  Complete renovation of a 70,000 ft2 facility including corporate offices, R and D labs, GMP clean rooms and Administrative functions. Project included 15,000 ft2 of validated production suites. Complete programming through OQ validation work was completed in one year.

JENNERIK ENGINEERING, INC.

## PATRICK T. GOETZ, P.E. — PRINCIPAL

- **Park Plaza,** Baltimore, MD – Full MEP engineering services for a complete renovation of a 38,000 ft2 office/ retail complex. The building is permitted through the Baltimore Green Standard process. Mechanical systems included variable refrigerant heat pumps with indoor fan coil units and a 100% outdoor air/energy recovery rooftop unit. The building is planned for the fit out of three restaurant facilities.

- **Mount Vernon Mills,** Baltimore, MD – Full MEP engineering services for a complete renovation of a 110,000 ft2 apartment/ office/ retail complex. The building is permitted through the Baltimore Green Standard process. The complex is mater planned for two full service restaurant fit outs.

- **Silo Point,** Baltimore, MD – Full MEP engineering services for a complete renovation of a 800,000 ft2 residential, office and retail complex. Retail spaces were provided with shell systems which were ultimately connected during multiple tenant fit out projects. Complete construction administration services were also provided. Fit out projects included restaurant and spas.

- **Pharmaceutics International, Inc.,** Hunt Valley, MD – 350,000 ft2; Six Building Campus

  Multiple adaptive renovation and fit out projects over ten year period in a six building campus including Manufacturing, laboratory, warehouse, administrative and support areas. Projects are all fast track, design build. Full programming, design and construction administration services were provided.

- **WR Grace,** Howard County, MD – 1,000,000 ft2; Multi-Building Campus; 90,000 ft2 New World Headquarters Building

  New Corporate Headquarters Office building. LEED certified 90,000 ft2 new ground up world headquarters facility. Included state of the art energy saving features including central plant upgrades with utility company rebates. Full programming, design and construction administration services were provided.

  Multiple adaptive renovation and fit out projects over three year period in a six building campus including Manufacturing, laboratory, warehouse, administrative and support areas. Projects are all fast track, design build. Full programming, design and construction administration services were provided.

***Education***

B.S. Mechanical Engineering
University of Maryland, Baltimore County, MD

***Affiliations and Licenses***

- Licensed Professional Engineer: MD License No. 19966; NC License No. 35136
- International Society for Pharmaceutical Engineering (ISPE); Chesapeake Bay Area Chapter
- American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE), full member

***Other Highlights***

- Annual Speaker at National Labs 21 Meeting

JENNERIK ENGINEERING, INC.

**PATRICK T. GOETZ, P.E.** **PRINCIPAL**

- Guest Speaker at State of Maryland Education Symposium
- Taught various professional continuing education courses for HVAC
- Published on I2SL year end magazine.
- Published in ISPE technical papers