



## **JACOB D. DUSTIN, PHD, P.E.**

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### **EXPERIENCE SUMMARY**

Over thirty years of experience in increasingly responsible operational, academic and engineering leadership positions. Extensive experience in managing large, diverse groups of engineers, scientists and technicians; controlling annual budgets in excess of \$100M; and establishing professional working relationships with both domestic and foreign government agencies, design/construction groups and Architectural-Engineering firms.

### **EDUCATION**

BS, Civil Engineering, US Air Force Academy, Colorado Springs, Colorado  
US Air Force Pilot Training, Williams Air Force Base, Arizona  
MS Civil (Water Resources) Engineering, Brigham Young University, Provo, Utah  
Ph.D., Civil (Water Resources & Environmental) Engineering, Brigham Young University, Provo, Utah  
MS Equivalent, National Resources Strategy, Industrial College of the Armed Forces, Washington D.C.

### **PROFESSIONAL CERTIFICATION/AFFILIATIONS**

Registered Professional Engineer  
American Society of Civil Engineers (Fellow)

### **EXPERIENCE RECORD**

PRESENT

CONSULTANT

Provide engineering, management, and strategic planning services to others.  
Specialize in technical proposal and document preparation in the fields of renewable energy and environmental remediation.

2006 TO 2008 **INTREPID TECHNOLOGY AND RESOURCES INC. *President, COO***

Provided operational leadership and technical oversight to Company as well as responsible for project selection, definition, development and for key strategic partnering. Performed senior engineering design review and approval and responsible for staffing organization.

2000 TO 2006 **INTREPID TECHNOLOGY AND RESOURCES INC. *Executive VP/Corp Secretary***

Company Co-founder and Principal. Assisted in first building the Company as a privately held professional engineering services firm and then transitioning it into a publicly held Renewable Energy Production company. Provided Senior oversight for the technical/operational and financing aspects of the development, design, construction, startup and ownership of 2 large scale biomethane plants (valued at \$11M) in south-central Idaho. These plants convert dairy manure waste into pipeline quality natural gas – the first and only renewable energy biomethane project in the nation to pass the rigorous Gas Technology Institute quality testing protocol. Other product revenue streams include high quality horticultural fiber and Voluntary Emissions Reduction Credits (aka “carbon credits”) qualified under the California Climate Action Registry protocol. As Corporate Secretary and Treasurer, responsible for full compliance with all US Securities and Exchange Commission requirements and for oversight of the company’s financial transactions.

2000 TO 2002 **PARSONS *Program Manager (Dual Intrepid/Parsons role)***

In a unique dual role serving both as a Principal in Intrepid and a “Casual” employee for Parsons, assisted in writing proposal and winning of a \$100 million 5-year Air Force Center for Environmental Excellence (AFCEE) World-Wide Environmental Remediation and Construction (ENRAC) contract. Then served as the named Program Manager for same until June 2002 when fellow Principal and key member of Intrepid staff resigned, requiring my full attention be focused on increased Intrepid responsibilities. Assisted in the selection of qualified Program Manager replacement and helped facilitated a smooth and orderly transition with AFCEE personnel prior to departure.

1999 TO 2000 **BECHTEL BWXT IDAHO, LLC. *Program Manager/Engineering Fellow***

Provided expertise to Environmental Technology and Planning Integration Directorate of the Department of Energy's Idaho National Engineering and Environmental Laboratory (INEEL) to facilitate the application of environmental technology capabilities to field operational needs, and provide focus for environmental research and development activities. Managed national Long-Term Stewardship (LTS) Science & Technology Program. Responsibilities included identifying operational LTS research and development needs and existing capabilities (internal and external to DOE), analyzing the gaps, and developing a program to bridge those gaps to ensure that technology is available when needed.

1995 TO 1999 **PARSONS INFRASTRUCTURE & TECHNOLOGY GROUP, INC. *Remedial Design / Remedial Action Manager***

Led multidisciplinary staff of engineers, scientists, and project managers responsible for the design, construction and operation of post-Record of Decision environmental remediation activities for the INEEL. These activities ranged from radiologically contaminated soil removals to design and construction of engineered barriers to protect

buried nuclear reactors. In addition to overall management and supervisory duties, also responsible for resourcing special skills and expertise to meet unique requirements of individual projects and for interfacing with the client, DOE, and state and federal regulatory agencies. In addition to INEEL duties, also served as Program Manager for the Parsons Environmental Services Contract for Hill AFB/Utah Test & Training Range, Utah and assisted with several Base Housing Privatization evaluation studies, including Hill AFB (Utah), Mountain Home AFB (Idaho), Fairchild AFB (Washington).

## 1970 TO 1995 **U.S. AIR FORCE**

### JULY 1992 - JUNE 1995, ***Executive Director***

Spearheaded the turnaround of the US Air Force Air Mobility Command environmental program. Planned and executed a budget averaging \$100M per year and led 53-person professional environmental staff responsible for cleanup of over 350 CERCLA sites, day-to-day environmental compliance, natural and cultural resource conservation, and pollution prevention for 17 major airbase/industrial complexes across the country and 1 overseas. Built a comprehensive program which resulted in more than doubling the number of CERCLA sites requiring "No Further Action", reducing solid and hazardous waste disposal volumes by nearly 40%, completing comprehensive Natural and Cultural Resources Surveys nearly a full year ahead of the DoD goal; and reducing open regulatory environmental enforcement actions from 35 to zero - a "first" for any major operational command. Established excellent working relationships with teams among local, state and federal regulators in 13 states and 6 EPA Regions, and individual field commanders. Senior reviewer/advisor to the Armstrong Laboratory core team developing and prioritizing the Air Force Environmental Research and Development Needs List.

### June 1991 – June 1992, ***National Defense University, Student***

Selected to attend Industrial College of the Armed Forces in Washington D.C. Year-long curriculum focused on understanding National Security from a global economic and strategic resource perspective.

### July 1988 – June 1991, ***US Air Forces, Europe, Squadron Commander***

Led 400-person international (American, British and German) team in a 3-year, \$110 million facility revitalization/modernization effort for the largest US Air Force jet fighter complex outside the continental US. Responsible for real property maintenance, design and construction for 2 geographically separated airbases in England in addition to 11 other airfields and remote communications sites scattered throughout the United Kingdom, Germany and Norway. Projects completed ranged from utility system repairs and upgrades to construction of over 400 new family housing units, numerous aircraft maintenance and operational support facilities, and major runway and taxiway rehabs. All projects completed on schedule and within budget.

### June 1970 – July 1988, ***Other U.S. Air Force, (Multiple Titles/Positions)***

Held variety of US Air Force operational (flying), academic and engineering positions highlighted by promotion ahead of peers. Served as Aircraft Commander, Instructor Pilot and as a Standardization and Evaluation Flight Examiner. Achieved Command Pilot status. Following completion of Air Force-sponsored doctoral program, selected for special duty assignment as a member of the faculty at the US Air Force Academy. Taught engineering and water resources/environmental subjects and conducted and supervised senior research projects. Also served as an Honor and Ethics Advisor and a member of the Freshman Class Committee (responsible for determining academic

fitness of individual freshmen to remain at the Academy). Served a subsequent tour as Associate Dean of the Air Force Institute of Technology School of Civil Engineering. Attained the academic rank of Associate Professor of Civil Engineering.