



## **Lowell L. Malo, PE** Vice President – Engineering Services

### **Summary:**

Lowell is an experienced senior manager with a proven track record of on-time and on-budget performance. Goals are met with innovative and unique solutions as well as reduction and elimination of non-value added processes. He has extensive hands on experience in multiple disciplines of engineering and manufacturing organizations. This broad knowledge has given him the ability to organize and address tasks with a full, company-wide view, while maintaining constant focus on achieving corporate objectives.

- Direct management experience in: P&L responsibility as Program and Project Manager; Engineering as Vice President, Director, and Project Engineer; Purchasing as Manager; Quality Control as Manager; Manufacturing as Site Manager
- Ability to define and establish an organization from the ground up to meet multiple corporate needs.
- Establishment of various manufacturing organizations including JIT, Project Teams, and production lines.
- Solid experience in proposal and specification preparation for projects exceeding \$1 billion in value.
- Broad experience in vendor and subcontractor management.
- Knowledgeable in the Code of Federal Regulations (CFRs)
- Proven track record in establishing and meeting schedule and budget goals.
- International program experience in Europe, Africa, Asia, and South America.

### **Education:**

- BS in Aerospace Engineering, St. Louis University – graduated first in class.
- 15 hours post-graduate credit in International Business – Lindenwood College, St. Charles, Mo.
- 15 hours post-graduate credit in Aerospace Engineering (specializing in composite materials and systems engineering) – Virginia Tech.
- Attended various seminars and continuing education credits.

### **Professional Experience:**

#### **RailPlan International, Baltimore, MD (March 2013 to present)**

- Vice President of Engineering – directed a department of up to 18 individuals to complete the design, construction, and test of interiors for the Amtrak LDSL project. Interiors included shower, toilet, roomette, deluxe, and ADA modules along with a full-service galley. This effort included preliminary, intermediate, and final design reviews along with first article inspections and technical support of the installation at the CAF plant in Elmira, NY. All designs were in full compliance with CFR, FRA, and FDA regulations.

#### **CAF USA, Elmira Heights, NY (April 2011 to March 2013)**

- US Program Manager - Amtrak LDSL project.. I was the main interface between CAF USA and the customer.

#### **RailPlan International, Baltimore, MD (June 2008 to April 2011)**

- Director of Engineering - Worked with a major rail car component supplier to develop products for the US market. This effort included designing, manufacturing, and testing products to U.S. expectations. These product are currently on a one-year trial at NYCT. I led the U.S. portion of the technical effort to aid a car builder in the preparation and presentation of a proposal for the design and manufacture of passenger rail cars for Amtrak. During this process, in addition to making sure the proposal was technically correct in all aspects, it was my responsibility to assure



that the car builder will meet all Federal, APTA, and Amtrak requirements throughout the life of the contract.

- On Contract to CAF USA – Led the CAF American effort to write the technical proposal for the Amtrak LDSL (Viewliner II) contract. This included assembling a technical team, either overseeing or directly writing the proposal text and supporting the proposal in final meeting with Amtrak. The result was that CAF won the contract over a company that had already built a very similar car for Amtrak.

## **Colorado Railcar Manufacturing, LLC, Ft. Lupton, CO (9/05 to 6/08)**

- Vice President of Product Development - Researched and investigated alternative energy drives for DMUs including diesel-hydraulic drives with hydraulic energy storage and diesel electric drives with regenerative electrical storage. I represented Colorado Railcar in all matters pertaining to the Federal Railroad Administration (FRA) as well as various industry groups.
- Vice President of Engineering – Directed a group of over 30 engineers and designers in the design, construction, and testing of various unique rail cars including dome touring cars and Diesel Multiple Unit (DMU) commuter cars. In addition to directing the engineering effort on other projects, I personally managed the effort to transform a “working prototype” double deck DMU and trailer car into fully CFR-compliant marketable products. This included an 11,000 pound weight reduction, a 9 dB reduction in noise, and re-design, analysis, testing, and document preparation to meet the CFR requirements. The effort culminated in a letter from the DOT technical group (the Volpe Center) that the car was fully 49 CFR 238 compliant. During actual testing the DMU consist achieved fuel efficiencies far exceeding that achieved by a standard locomotive-hauled push-pull consist.

## **ALSTOM Transportation, Inc., Hornell, NY (6/98 to 9/05)**

- Director, Design Engineering – Total technical responsibility for all phases of mechanical, electrical, and systems design for all projects and R&D efforts in the ALSTOM, Hornell facility. I built the Design Engineering department “from the ground up” (expanding from 28 to 131 engineering personnel) including the establishment of the department work scopes, creating the organization, writing comprehensive job descriptions and performance objectives, writing the department policies and procedures toward and achieving ISO certification, and hiring the staff required to meet the needs of the department while addressing the individual needs of multiple contracts up to \$2 billion in value. In addition to the efforts in Hornell, I took full advantage of ALSTOM’s global resources with technical expertise in many areas of the world. It was not uncommon to manage engineering efforts in North America, South America, Europe and Asia occurring simultaneously on a single contract.

## **Colorado Railcar Manufacturing, Denver, CO (9/95 to 12/97)**

- Project Manager – Directed all administration, engineering, purchasing, planning, budgeting, cost control and manufacturing efforts required to deliver luxury passenger rail coach cars.
- Vice President of Engineering – I directed a group of 35 engineering personnel during the design and construction of luxury passenger rail cars including double deck sleeper, diner, lounge and a 22,500 kw power car. One additional unique railcar included 5 hot tubs and two massage rooms. During this period, I also developed all policies and procedures for the department.

## **Amtrak, Washington, DC, and Beech Grove, IN (1983 to 1991)**

- Site Manager, SEPTA Program – Established a \$44 million production effort to design and construct rapid transit rail cars for the South Eastern Transportation Authority. I wrote all engineering, purchasing, and quality assurance policies and procedures and directed 70% of the engineering and all of the purchasing and manufacturing efforts. I coordinated the efforts of over a hundred vendors and



28 subcontractors in Europe and North America. Over 110 union and salaried personnel were in my organization.

- Site Manager, Viewliner Program – Directed 60% of the engineering and all of the manufacturing effort to construct prototype Viewliner Sleeper and Diner cars for Amtrak. This was a \$15 million program. Construction and testing of these prototypes resulted in the purchase of 50 additional cars.

### **CSX Corporation (FGE), Alexandria, VA (1980 to 1983)**

- Manager of Engineering – New Products

### **ACF Industries, St. Charles and St. Louis, MO (1972 to 1979)**

- Manager, Quality Assurance and Control; Manager, Purchased Materials; Project Engineer

### **Publications:**

- Published author for the American Society of Mechanical Engineers (ASME), International Institute of Refrigeration (IIR), and the Experimental Aircraft Association (EAA).

### **Affiliations:**

- Member of ASME RT-1 and RT-2 committees to write light and heavy rail safety standards.
- Member APTA Construction and Structural Committee.

### **Personal:**

- Registered Professional Engineer in Missouri, Indiana, and Florida
- Member, Alpha Chi National Honor Society.