1.1 Custom Heavy Load Trailer Manufacturing

The scope of this proposal is to provide VFI with 6 Panel Enclosures, built to print, and the option of installation at the end users facility.

Figure 1 shows a specialized trailer that MERRILL manufactured, assembled, and integrated for NASA to transport Space Launch System (SLS) launch vehicle sections. This trailer system included dual front/back steering systems and embedded hydraulic and pneumatic controls that MERRILL fabricated, assembled, integrated into this trailer, and tested.

The purpose of this transporter was to transport the SLS Engine Section from the Michoud Assembly Facility (MAF) to MSFC for final testing.

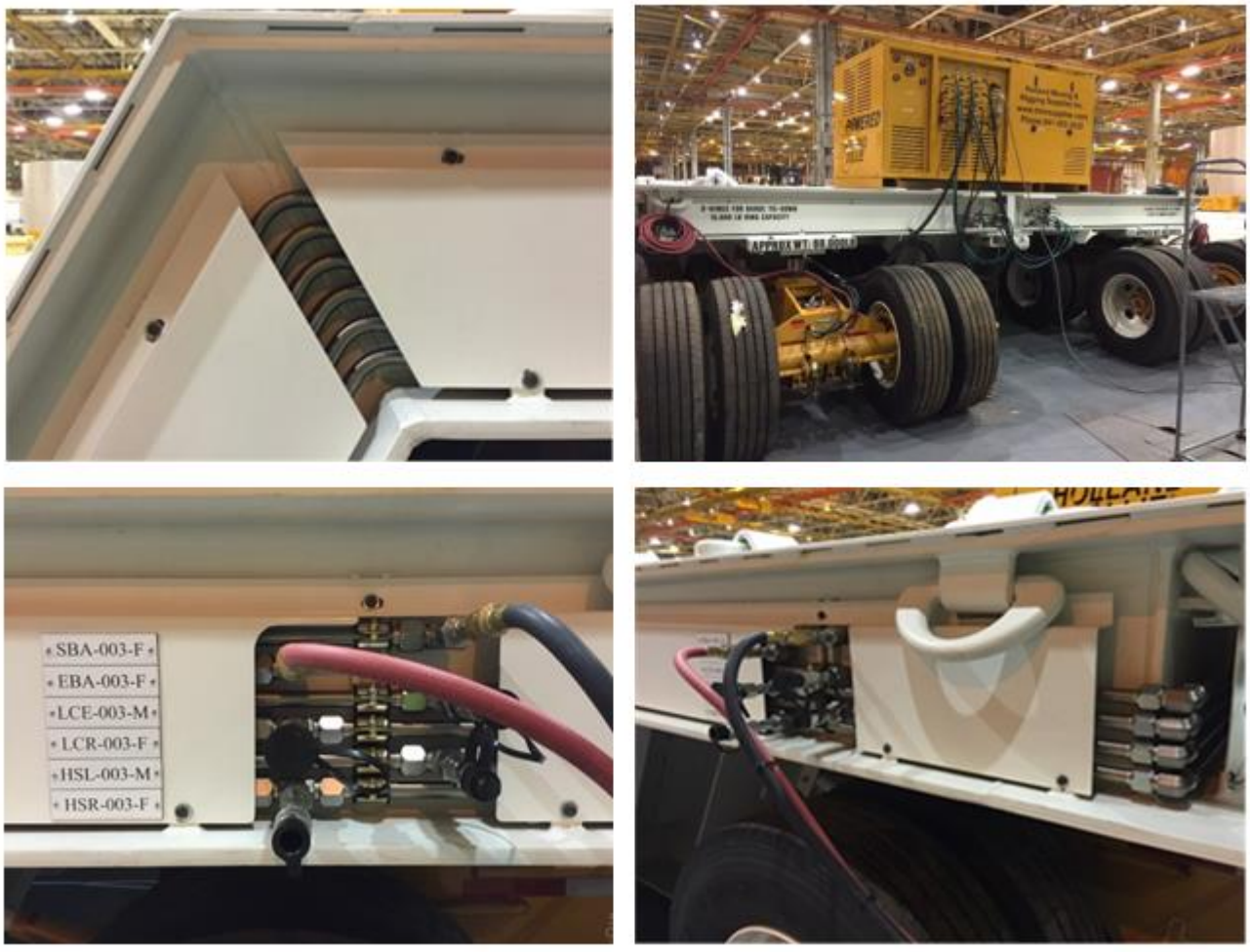

Figure 1 – NASA Space Launch System (SLS) Trailer Integration

In support of this project, MERRILL manufactured the customer a double-wide trailer shown in Figure 2. From the initial project kickoff in February 2016 to hardware delivery to MAF in July 2016 (22 weeks), our team worked through numerous technical, schedule, and fabrication issues to get this hardware designed, built, assembled, and integrated into the transporter configuration.

Our team worked long hours and went over and above to get the job done. As a result, our team received the NASA Group Achievement Award.

For exemplary performance and outstanding teamwork in overcoming complicated schedule/hardware challenges in development and delivery of the Engine Section (ES) Transporter to move the Space Launch System ES Structural Test Article.


National Aeronautics and Space Administration

Group Achievement Award

SLS ES Transporter Design and Build Team

Figure 2-NASA Space Launch System (SLS) Launch Vehicle Transport Trailer