

## **1.0 Introduction**

Sims Professional Engineers was contracted by Florida East Coast Rail to perform an analysis of two well car designs to carry cryogenic containers in revenue service. A loaded cryogenic container is only carried in a single-stack configuration, and has a maximum weight of 67,200 lb. The well cars were designed for current AAR loading, which includes double-stacking containers up to the load limit. As such the loading conditions for the AAR loads will tend to produce harsher loads at the container restraints. To quantify this a comparative analysis was performed between the cryogenic container and standard container loads.

The containers sit in the well of the railcars, with the sides extending above and with a floor structure below. A brief analysis describing the coverage of the container from the car body is discussed.