In May 2016, the Pipeline and Hazardous Materials Safety Administration (PHMSA), a branch of the Department of Transportation (DOT), held a workshop to gather input regarding revision of the regulations covering liquefied natural gas (LNG). Those regulations, Part 193 of Title 49 of the Federal Code of Regulations (49 CFR 193), were promulgated in 1980. The last major revision to the regulations occurred in 2000, when the National Fire Protection Association (NFPA) 59A standard was incorporated by reference for large portions of the code. The DOT/PHMSA workshop, which was open to all interested parties, was held so that representatives from the public, industry, and governmental agencies could offer input into what changes for 49 CFR 193 could or should be made. This paper serves to report the major outcomes of the workshop and outline some of the challenges that are present in refining the regulation. This paper in no way represents a definitive path forward for 49 CFR 193 and is not an advance notice of proposed rulemaking. The discussion contained in this paper is intended for information purposes only.