

Algorithm for Calculation of Acceptable Separation Distances (ASDs), in accordance with 24 CFR Part 51. **ASDBOP:** The Acceptable Separation Distance for Blast Over Pressure, when the subject Container is Above Ground, and is Under Pressure: 10 to the power of (.3306*LogBase10 (Volume)+1.3487) in ft. **ASDPPU:** The Acceptable Separation Distance for People, when Container is Above Ground, Pressurized (gas), OR Not Pressurized (liquid) and Not Dicked: 10 to the Power of (.4166*LogBase10(Volume)+1.1920) in ft. **ASDBPU:** The Acceptable Separation Distance for Building, when Container is Above Ground, Pressurized (gas), OR Not Pressurized (liquid) and Not Dicked; **ASDPNPD:** The Acceptable Separation Distance for People, when Container is Above Ground, Not Pressurized and is Diked: 10 to the Power of (.4180*LogBase10(Diked Area)+.9355) in ft. **ASDBNPD:** The Acceptable Separation Distance for Building, when Container is Above Ground, Not Pressurized and is Diked: 10 to the Power of (.4617*LogBase10(Diked Area)+.0391) **ASDPNPD:** The Acceptable Separation Distance for People, when Container is Above Ground, Not Pressurized and is Diked: 10 to the Power of (.4180*LogBase10(Diked Area)+.9355) in ft.; Flammable cryogenic gases most used in industry are : Hydrogen, Methane and Liquefied Natural Gas.

