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Comment to Change 1107 Pipe Penetration sealing shall allow for expansion and contraction of materials and mechanical vibration

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For 2022 Energy Code
Comment to Change 110.7

SECTION 110.7 "MANDATORY REQUIREMENTS TO LIMIT AIR LEAKAGE

All joints, penetrations and other openings in the building envelope that are potential sources of air

leakage shall be caulked, gasketed, weather stripped, or otherwise sealed to limit infiltration and exfiltration. Pipe Penetration sealing shall allow for expansion and contraction of materials and mechanical vibration.

This addition is needed as no other penetration's have vibration from mechanical equipment except piping! Piping that vibrate such as refrigeration piping that impacts the sealing method and material used. Example would be refrigeration piping that vibrates due

to equipment or oscillation of fluids. This vibration dislodges seals sealing method used in California is expanding foam.

The Department of Energy warns the expanding foam can be turned into powder due to the friction of

vibration. This foam method is not sustainable leaving large holes for costly air leakage. Fluids ban heat and cool causing expansion and contraction which can cause caulking to crack, and dislodge .

This language is in the IECC commercial 2018 & both commercial and residential in 2021 IECC which has adopted for all penetrations of the air barrier