SPRAYING UNDER OBSTRUCTIONS NFPA 13 PROTECTION BENEATH OBSTRUCTIONS WITH STANDARD PENDENTS & **UPRIGHTS USING PERFORMANCE OBJECTIVES OF NFPA 13** Chapter 8 [10]: This flowchart covers requirements for sprinkler protection where the top of an obstruction is at or above the deflector of a fire sprinkler in accordance with NFPA 13 2013-2016 [2019]. Installation Requirements For more fire protection resources like this, subscribe for free at www.meyerfire.com/subscribe. Article first posted at www.meyerfire.com | Updated May 2020 Section 8.6 [10.2] Standard Pendent and Upright Spray Sprinklers Section 8.6.5 [10.2.7] Section 8.6.5.1.2 Obstructions to [10.2.7.1.2] Sprinkler Discharge Section 8.6.5.1 [10.2.7.1] Comply with ONE of Performance the following: Objective **Beam Rule Treat As Wall** Soffit Rule **Cabinet Rule Sprinkler Below** Water Thrown Water Thrown Water Sprayed from Limit "Shadow" of Provide Water Underneath Underneath Shallow Both Sides Water Coverage Underneath Soffit Obstruction Soffit Section 8.5.5.2 Sprinklers on Obstruction against Deep obstruction Section 8.6.5.1.1 [9.5.5.2], Table opposite sides of wall not over 30 against wall, not over [10.2.7.1.1] 8.6.5.1.2 [10.2.7.1.2], obstructions inches in width 24 inches in width and Figure 8.6.5.1.2(a) [10.2.7.1.2(a)] Obstruction must Provide Sprinkler Obstruction must be Figure 8.6.5.1.2(b) drop at least 18-4-ft or less in width [10.2.7.1.2(b)] inches below **Below Obstruction** Figure 8.6.5.1.2(a) sprinkler deflector Sprinklers on each See Ceiling side no more than See Soffit Figure 8.6.5.1.2(c) 1/2 x S to obstruction **Obstruction Tool Obstruction Tool** [10.2.7.1.2(c)] centerline See Soffit Engle B St **Obstruction Tool**