

Recommended Revisions for NFPA 77 Recommended Practice on Static Electricity

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Abstract—The National Fire Protection Association (NFPA) develops standards for fire prevention through a consensus of experts. While this document focuses on fire prevention, it is a widely used reference on static control for industrial process. This year begins the 3-year revision cycle for NFPA 77 Standard Practice on Static Electricity. Chapter 17 of this standard practice presents recommended practices for web and sheet processes. In this presentation, I review the existing 2014 standard that offers excellent information on substrates, coating solutions, various coating and converting processes, and advice on the control of static electricity in web processes. The NFPA 77 Committee on Static Electricity is open to suggestions for revisions. I encourage your comments, insights and suggestions. My recommended revisions currently include providing more best practice examples of static control, a description of measurements to verify that static is sufficiently controlled, and a description of the engineering methodology to implement fault tolerant static control where static control is sufficiently maintained to suppress sparks in solvent zones even when any single static control device fails.