



INTERPRETATIONS & PROCEDURES

FIRE PREVENTION DIVISION

SUBJECT: Smoke control wiring in raceway.		CODE SECTION(S): '06 IBC/IFC 909.12.1
ISSUED BY		
NAME: Travis E. Allen, PE	SIGNATURE: 	ISSUE DATE: July 27, 2007
TITLE: Assistant Fire Marshal – Plan Review		NUMBER: 2007-01

ATTACHMENTS _____

SUPERSEDES _____

ISSUE / QUESTION:

How is Bellevue interpreting and applying IFC 909.12 and 909.12.1? Specifically, is raceway required for fire alarm systems and HVAC Control systems.

DISCUSSION:

Section 909.12 of the 2006 IBC/IFC details the requirements for detection and control systems for smoke control systems. Specifically, this section applies to all *“input or output signals”*. Subsection 909.12.1 relates to the wiring requirements and specifies that *“all wiring... shall be fully enclosed within continuous raceways”*.

INTERPRETATION:

Where a fire alarm system is being utilized to receive detection signals (inputs) and sending output signals to the smoke control equipment, it is considered part of the smoke control system and all wiring used for input/output signals associated with the smoke control system would require to be fully enclosed within continuous raceway. Initiating devices such as flow switches, pull stations, smoke detectors, etc, which are used to initiate smoke control systems would require that their wiring be protected in accordance with this code section. Further, building HVAC control systems which may also be utilized as part of the smoke control design would also be required to meet this code section.

“The Bellevue Fire Department exists to assist the public in the protection of life and property by minimizing the impact of fire, medical emergencies, and potential disasters or uncontrolled events that affect the community and environment.”