Application and effect of indoor release model to dispersion of hazardous materials

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There are chemical releases that occur indoors because leaking pipes or vessels are located inside the building. In such cases, the building may confine released materials and restrict their dispersion. To accurately calculate consequences of hazardous material release from interior, additional model should be applied to discharge models to modify flowrate. Cases of carbon monoxide release was simulated through FLACS to calculate the dispersion and the concentration over time near surrounded area from the source. Indoor release model was applied to the cases to show the model describes release from interior appropriately, and there is significant difference between indoor and outdoor releases.