AMENDMENT PROPOSAL

Please provide all of the following items in your amendment proposal.

Code Sections/Tables/ Figures Proposed for Revision:

IBC Appendix P; Construction in Designated Special Construction Zones

Proposal: Revise as follows

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APPENDIX P

CONSTRUCTION IN DESIGNATED SPECIAL CONSTRUCTION ZONES

SECTION P101

GENERAL

P101 Scope. All construction, alteration, repairs, demolition or moving relocation in areas designated under Article VII, Chapter 10 of the Revised Municipal Code as Special Construction Zones shall conform to the provisions of this Chapter.

SECTION P102

GENERAL PROVISIONS

P102.1 Permits. No permits for construction, alteration, repairs, demolition or moving relocation in a
designated Special Construction Zone shall be issued without being in compliance with all recommendations contained in the engineer's report as required by the Administration Section.

P102.2 Engineers reports. If the applicant is required to prepare an engineer's report pursuant to the Administration Section, the Department Agency may require such additional information and recommendations as it deems necessary and may require such additional measures as are necessary to minimize potential hazards during construction and control hazards from the completed structure.

P102.3 Inspections. All construction and excavation sites shall be subject to inspection by the Department Agency, Fire Department and the Department of Health and Hospitals Environmental Quality section within The Department of Public Health and Environment, and results of tests or monitoring required by this Chapter shall be available at the site for inspection.

P102.4 Work stoppage. In the event of a material violation with the requirements of this Chapter, the Department Agency may stop all construction activity until it is satisfied that the violation has been corrected.

SECTION P103
HAZARDOUS GASES GENERATED BY LANDFILLS

P103.1 New construction. Except as provided in the Administration Section, all new buildings, structures and utilities to be constructed in a Special Construction Zone, which is so designated because of the presence of hazardous gases generated by landfills, shall be designed by an engineer registered in the state of Colorado to control and protect against accumulation of over 1.0% by volume of flammable gas in the building, structure or utility. The following precautions shall be taken during and after construction activity:

1. A flammable gas indicator shall be utilized at all times during trenching, excavating, drilling or when working within 10 feet of an open excavation.

2. When trenching, excavating or drilling deeper than 2 feet into the soil or fill, or in the presence of detectable concentrations of 1.0% by volume of flammable gas, the operating equipment shall be provided with spark proof exhausts.

3. A dry chemical fire extinguisher, approved by the Fire Department, shall be provided on all equipment used in the landfill.

4. Personnel within or near an open trench or drill hole deeper than 2 feet into the soil or fill shall be fully clothed, wear shoes with nonmetallic soles and wear a hard hat and safety goggles or glasses.

5. Exhaust blowers shall be used in instances where trenches may show a build-up of flammable gas of 1.0% by volume or less than 19.5% by volume of oxygen.

6. Smoking and/or an open flame shall not be permitted in any area within 100 feet of the excavation.

7. Personnel shall be kept upwind of any open trench unless the trench and the downwind atmosphere are continuously monitored.

8. Before personnel are permitted to enter an open trench, the trench shall be monitored for flammable gas and at least a 19.5%-by-volume oxygen sufficiency. When in the excavation,
each work party shall be working no more than 5 feet from a continuously operating flammable gas and oxygen monitor.

9. The applicant shall employ an inspector whose duty it shall be to effect continuous compliance with the foregoing precautions. The inspector shall be a qualified person approved by the Department Agency or shall be an engineer registered with the state of Colorado or a person in the employ of, or subject to, the direct supervision and control of such an engineer. Said inspector shall submit a written report of his inspection to the applicant and to the Department Agency at 10-day intervals during active construction stating that all new construction is in compliance with these regulations, and that all testing and monitoring has been, and is being done as required by the Code.

10. After construction is completed, hazardous gas monitoring devices approved by the Fire Department shall be installed in the completed building or structure in such number and in such places within the building or structure as may be required by the Fire Department.

**P103.2 Alteration or repair of existing building, structures or utilities.** Except as provided in the Administration Section and P103.3, no alterations or repairs to any existing building, structure or utility shall be made unless the following precautions are taken:

1. Within 5 days prior to applying for a permit under Chapter 1 of the Building Code to alter or repair an existing building, structure or utility, the work site shall be tested for the presence of flammable gas by an engineer registered in the state of Colorado.

2. The applicant shall be exempt from all other requirements of this Section P103.2 if:
   a. Test results show that there is less than 2.0% of the Lower Explosive Limit (L.E.L.) of hazardous gas, then the permit for the work shall be issued; and
   b. Upon completion of the work, the applicant shall install hazardous gas monitoring devices approved by the Fire Department in such number and in such places within the building or structure as may be required by the Fire Department.

3. If the test results show that there is 2% or more of the Lower Explosive Limit (L.E.L.) of hazardous gas, then the applicant shall take all of the precautions pursuant to Section P103.1 as if the construction were new construction.

**P103.3 Exemption.** Whether or not he is an applicant for a permit, the owner of real property within a Special Construction Zone may apply to the Building Agency for a certificate of exemption from the provisions of Article VII, Chapter 10 of the Revised Municipal Code and Section P103 of the Building Code. To obtain such exemption, said owner shall have his property tested by an engineer registered in the state of Colorado and tests shall meet the following requirements:

1. A test for the presence of flammable gas shall be performed at a time when there is frost on his property to a depth of at least 6 inches in the soil, again at a time when there is no frost in the soil, and again within 5 days of the date when an exemption certificate is applied for.

2. The test holes shall be placed along each major boundary line of the real property for which the exemption is sought in such number and at such locations as the engineer deems proper.

3. If the test results show that there is less than 2.0% of the lower explosive limit (L.E.L.) of flammable gas, and if such test results are satisfactory to the Department Agency, then the Department Agency shall issue a certificate stating that the real property described in the certificate is exempt from the provisions of Article 647 of the Revised Municipal Code and
Section P103 of the Building Code.

4. As a condition of receiving an exemption certificate from the Department, the owner shall acquire and install in all existing and future buildings and structures devices approved by the Fire Department to monitor for the presence of hazardous gas in such number and in such places within the building or structure as may be required by the Fire Department.

5. Upon a finding that flammable gas is present in amounts greater than 2% of the lower explosive limit on any property where an exemption certificate has been issued, the Department shall revoke the exemption certificate. Further, upon a finding that the monitoring devices on any property for which an exemption certificate has been issued are inoperative, the Department may suspend or revoke the exemption certificate.

Supporting Information:

Purpose: Editorial changes to reflect language and references used elsewhere in the Code.

Referenced Standards:
None

Impact:
No Impact

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of construction; 
  - Increase
  - Reduce
  - ☒ No Effect

- The effect of the amendment proposal on the cost of design;
  - Increase
  - Reduce
  - ☒ No Effect

- Is the amendment proposal more- or less-restrictive than the I-Codes;
  - More
  - Less
  - ☒ Same

Departmental Impact:
No impact.

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of review;
  - Increase
  - Reduce
  - ☒ No Effect

- The effect of the amendment proposal on the cost of enforcement/inspection;
  - Increase
  - Reduce
  - ☒ No Effect