BC BUILDING CODE INTERPRETATION COMMITTEE
AIBC, APEGBC, BOABC, POABC

File No: 98-0076	**INTERPRETATION**	**Page 1 of 1**
Interpretation Date:	May 21, 2003	
Building Code Edition:	BC Building Code 1998	
Subject:	Special Waste System	
Keywords:	Food Display	
Building Code Reference(s):	7.3.3.12. (1) (2) 7.4.2.1. (1) (e) (i) (iii)	

Question:

Is there a recommended method of achieving an acceptable drain waste and vent installation for food display equipment?

Interpretation:

Yes --- A proven and commonly used special waste system identified as POABC Interpretation # 4066 provides compliance with the requirements of Part 7 of the BC Building Code is attached to this interpretation.

The 1998 BC Building Code Subclauses 7.4.2.1.(1) (e) (i) (iii) requires indirect waste connections installed in accordance with Sentences 7.3.3.12. (1) (2) for all food display equipment outlets located in display areas. A special waste system layout is not included in the Appendix for Part 7 of the BC Building Code.

Special waste systems must be designed to permit safe installations for indirect connections to hub drains and floor drains in food display areas. Special considerations must be given to provide a special waste system that would not require separately venting hub drains and floor drains in this unique design. (see attachment)

R. J. Light, Committee Chair

OBTAINED FROM POABC INTERPRETATION # 4066

1. Systems restricted to discharge from products display cases, ice machines, cooler condensate and emergency discharge from heat reclaim pumps.
2. The hydraulic loads for traps (min 3") in special system shall be:
   (a) 3 F.U. for 3" trap
   (b) 4 F.U. for 4" trap
3. All drainage branches shall be graded a minimum 1 in 50 for pipes up .to 3" size and 1 in 100 for 4" and over.
4. Trap arms shall have a downward slope in the direction of flow of minimum 1 in 50 and shall not exceed pipe diameter.
5. The hydraulic load drained to branches shall conform to Table 7.4.10.6.B.
6. Fixture outlet pipes shall have a developed length not greater than 1200 mm.
7. Cleanouts shall be installed in accordance with Subsection 7.4.7. and shall be readily accessible.
8. A reduction of pipe size on a horizontal branch requires a vent at the point of reduction.
9. All vents to be minimum 2" and sized in accordance with note #13 below. Vents shall not be connected to any other venting system.
10. Any dry vents shall roll off the top of horizontal waste pipes where possible.
11. Heat reclaim trenches shall have an emergency pumped drain with alarm system.
12. Special system sump shall be minimum 24" square up to 48" in depth. Larger sumps required for greater depths. Sump to have 18" liquid depth and be provided with backwater valve on outlet.
13. The load on vent pipes serving branches connected to special waste systems shall include all fixtures connected to each individual branch and be sized in accordance with Table 7.5.8.3.
14. Drains for food display cases and other traps receiving frequent discharges do not require trap primers.
15. Size sump vent to Article 7.5.7.6. (minimum 2" size).