

Table 7 - OUTDOOR HAZARDOUS AREA CLASSIFICATION *

LOCATION	PAVEMENT SIZE	METHANE DESIGN LEVEL	MEASURED SOIL GAS CONCENTRATION (ppmv)	MEASURED SOIL GAS PRESSURE (Inches of water)	HAZARDOUS AREA CLASSIFICATION
Below finished grade	None	I, II, III or IV	Less than 12,500	Less than 2	Unclassified
			Greater than 12,500	Greater than 2	5' or less depth: Unclassified 5' to 10' depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
Below finished grade with pavement greater than 15' from the outside wall of a building or structure *	Greater than 5,000 sq. ft. or Greater than 5,000 sq. ft. & Less than 25' in width	I, II, III or IV	Less than 12,500	N/A	Unclassified
			Greater than 12,500	Less than 2	5' or less depth: Unclassified 5' to 10' depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
			Less than 5,000	N/A	Unclassified
			Greater than 5,000	Less than 2	2.5' or less depth: Unclassified 2.5' to 10' depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
			Less than 12,500	Greater than 2	10' or less depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
Below finished grade with pavement greater than 15' from the outside wall of a building or structure *	Greater than 5,000 sq. ft.	I, II, III or IV	Less than 12,500	Greater than 2	10' or less depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
			Greater than 12,500	N/A	Unclassified
			Less than 5,000	Less than 2	2.5' or less depth: Unclassified 2.5' to 10' depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
Below finished grade with pavement less than or equal to 15' from the outside wall of a building or structure	Greater than 5,000 sq. ft.	I, II, III or IV	Less than 12,500	Less than 2	Class 1, Division 1
			Greater than 12,500	N/A	Unclassified
			Less than 5,000	Less than 2	5' or less depth: Unclassified 5' to 10' depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
			Greater than 5,000	Less than 2	10' or less depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
Sump/ Totally Submerged Pump/Partially Submerged Pit / Dry	N/A	N/A	N/A	N/A	Class 1, Division 2
					Class 1, Division 1
Above Grade	Regardless	N/A	N/A	N/A	Unclassified

NOTE:
 * Unpaved open areas, such as planters or landscaping not less than 3' x 3' spaced at less than or equal to 50' from each others edge, the area in between them shall be treated as an area that is less than 5,000 sq. ft. if the space in between them exceeds 50', that area can't be construed as less than 5,000 sq. ft. provided that the conduit or cable is installed in a trench and back filled with 3/4-inch aggregate or gravel up to the grade.

Table 9 - BUILDING HAZARDOUS AREA CLASSIFICATION

LOCATION	METHANE DESIGN LEVEL	MEASURED SOIL GAS CONCENTRATION (ppmv)	MEASURED SOIL GAS PRESSURE (Inches of water)	HAZARDOUS AREA CLASSIFICATION
Below Impervious Membrane	I or II III or IV	Less than 1,000 Less than 12,500 but more than 1,000	Less than 2 Less than 2	Unclassified
				10' or less depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
Below grade within the raised floor foundation or lowest building slab without an Impervious Membrane	I, II, III or IV	Less than 12,500	Greater than 2	Class 1, Division 1
		Greater than 12,500	N/A	Unclassified
		Less than 12,500	Less than 2	10' or less depth: Class 1, Division 2 Over 10' depth: Class 1, Division 1
		Less than 12,500	Greater than 2	Class 1, Division 1
		Greater than 12,500	N/A	Unclassified
Above grade within the raised floor foundation footing without an Impervious Membrane but with adequate ventilation per Standard Plan	I, II, III or IV	Less than 12,500	Greater than 2	Class 1, Division 2
				Unclassified
Above Impervious Membrane, but below the lowest building slab or raised floor foundation	I, II, III or IV	Less than 12,500	Less than 2	Unclassified
				Class 1, Division 2
Above Impervious Membrane, through the lowest building slab or Above slab	N/A	N/A	N/A	Unclassified
				Unclassified
Sump Pump Pit	Totally Submerged Partially Submerged Dry	N/A	N/A	Unclassified
				Class 1, Division 2 Class 1, Division 1

Table 8 - VENT RISER HAZARDOUS AREA CLASSIFICATION

LOCATION	POWER VENTILATED	HEMISPHERICAL DISTANCE FROM THE RIM OF THE VENT, A JOINT OR A FITTING		HAZARDOUS AREA CLASSIFICATION
		Within 0 to 3 feet	Within 3 feet to 5 feet	
Vent Outlet	No	Within 0 to 3 feet	Class 1, Division 1	
		Over 5 feet	Class 1, Division 2	
		Within 0 to 5 feet Within 5 feet to 10 feet	Class 1, Division 1 Class 1, Division 2	
Joints and fittings not enclosed within wall spaces	Yes	Over 10 feet	Unclassified	
		Within 0 to 3 feet	Class 1, Division 2	
		Over 3 feet	Unclassified	
Joints and fittings in framed walls*	N/A	N/A	Any distance within the frame stud bay	Class 1, Division 1
In the Vent System	N/A	N/A	N/A	Class 1, Division 1
Gas Sampling Port	N/A	N/A	Within 0 to 3 feet	Class 1, Division 2
Mechanical extraction vent with direct drive blade motor with a mechanical check valve in the outlet of the motor duct.	Yes	N/A	N/A	Unclassified
Mechanical extraction vent with direct drive blade motor without a check valve in the outlet of the motor duct.	Yes	Within 0 to 3 feet	Class 1, Division 2	

NOTE:
 * The hazardous area designation for these areas is considered as unclassified under any one of the following conditions:
 a. All joints and fittings are welded in approved manner.
 b. Approved double walled vent risers are provided, or
 c. Approved four inch or smaller threaded steel pipe venting system or equivalent approved piping system is installed.



**STANDARD PLAN:
 METHANE HAZARD MITIGATION**
 Not to be used for Playa Vista Phase I Projects

**SITE ADDRESS:
 LEGAL DESCRIPTION:
 OWNER:**

Rev.: 02/10/10
 Date: 02/07/06
 Scale: Not to Scale
 Drawn:
 Job:
 Sheet:
Sheet 5 of 8