

Table 1 - Recommended Offsites Equipment Spacing

ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	COLUMN	
A	A	BLOWDOWN FACILITIES (DRUMS, PUMPS, STACKS)																												
B	30 (100)	A	FIRED BOILERS																											
C	A	A	A	BLDG HIGH OCCUPANCE (> 15 PERSONS)																							BLDG LOW OCCUPANCY (15 PERSONS OR LESS)			
D	A	A	A	A	BUILDINGS UTILITY																									
E	30 (100)	A	A	A	A	COOLING TOWER																								
F	15 (50)	30 (100)	A	A	30 (100)	A	ELECTRICAL OVERHEAD POLE LINES																							
G	15 (50)	15 (50)	A	A	6 (20)	30 (100)	A	ELECTRICAL MAIN SUBSTATIONS																						
H	30 (100)	30 (100)	A	A	0	30 (100)	A	A	ELECTRICAL CONTROL AND DISTRIBUTION CENTERS (SEE NOTE 8)																					
I	15 (50)	8 (25)	A	A	0	6 (20)	A	A	A	FIRE STATIONS, FIRE PUMPS																				
J	61 (200)	30 (100)	A	A	15 (50)	30 (100)	8 (25)	15 (50)	A	A	FLARE STACKS																			
K	A	A	A	A	A	A	A	A	A	A	HIGHWAYS, ROADS & PUBLIC AREAS																			
L	61 (200)	30 (100)	A	A	15 (50)	30 (100)	6 (20)	0	0	15 (50)	A	A	LOADING AND/OR UNLOADING RACKS																	
M	30 (100)	61 (200)	A	A	46 (150)	30 (100)	15 (50)	30 (100)	15 (50)	61 (200)	A	30 (100)	A	NATURAL GAS METERING STATIONS (MAIN FLT)																
N	15 (50)	30 (100)	A	A	30 (100)	30 (100)	8 (25)	30 (100)	30 (100)	30 (100)	A	30 (100)	30 (100)	3 (10)	PIPEWAYS (MAJOR)															
O	6 (20)	6 (20)	A	A	6 (20)	8 (25)	0	6 (20)	0	6 (20)	A	0	6 (20)	3 (10)	A	PUMPS (FLAMMABLE)														
P	15 (50)	15 (50)	A	A	15 (50)	15 (50)	5 (15)	30 (100)	8 (25)	30 (100)	A	30 (100)	30 (100)	15 (50)	5 (15)	1 (3)	PUMPS (NONFLAMMABLE)													
Q	8 (25)	2 (5)	A	A	0	A	5 (15)	5 (15)	5 (15)	0	A	5 (15)	5 (15)	3 (10)	0	1 (3)	1 (3)	RAILROADS (MAIN LINES -RW)												
R	61 (200)	30 (100)	A	A	0	30 (100)	8 (25)	8 (25)	0	15 (50)	A	A	61 (200)	8 (25)	0	30 (100)	15 (50)	N/A	RAILROADS (SPURS-CENTER LINE)											
S	15 (50)	8 (25)	A	A	A	11 (35)	A	A	A	15(50)	A	A	A	8 (25)	A	5 (15)	A	A	A	OIL-WATER SEPARATORS (API-CP)										
T	30 (100)	61 (200)	A	A	46 (150)	30 (100)	15 (50)	30 (100)	15 (50)	61 (200)	A	30 (100)	30 (100)	30 (100)	6 (20)	3 (10)	5 (15)	30 (100)	30 (100)	8 (25)	SEWER MAINS (FLAMMABLE)									
U	8 (25)	15 (50)	A	A	6 (20)	6 (20)	6 (20)	6 (20)	6 (20)	6 (20)	A	3 (10)	3 (10)	3 (10)	A	3 (10)	3 (10)	3 (10)	3 (10)	3 (10)	A	PLANT ROADS (EDGE)								
V	5 (15)	5 (15)	A	A	5 (15)	8 (25)	1 (4)	5 (15)	5 (15)	12 (40)	A	A	6 (20)	5 (15)	1 (3)	3 (10)	3 (10)	3 (10)	A	5 (15)	A	A	PROPERTY LINES (OTHER THAN ROADS & RAILROADS)							
W	61 (200)	30 (100)	A	A	8 (25)	8 (25)	8 (25)	0	A	8 (25)	A	A	30 (100)	8 (25)	8 (25)	30 (100)	15 (50)	N/A	A	30 (100)	3 (10)	A	N/A	PRESSURE STORAGE VESSELS, 500,000 GAL OR LESS						
X	61 (200)	61 (200)	A	A	46 (150)	15 (50)	C, D	30 (100)	15 (50)	61 (200)	A	61 (200)	30 (100)	30 (100)	8 (25)	C, D	8 (25)	61 (200)	30 (100)	61 (200)	8 (25)	A	B, C, D	B, C, D	SPHERES AND SPHEROIDS (OVER 500,000 GAL)					
Y	61 (200)	91 (300)	A	A	76 (250)	30 (100)	C, D	61 (200)	30 (100)	91 (300)	A	91 (300)	30 (100)	30 (100)	15 (50)	C, D	8 (25)	61 (200)	30 (100)	61 (200)	15 (50)	A	B, C, D	B, C, D	B, C, D	NPPA CLASS III LIQUID STORAGE				
Z	B	B	A	A	B	B	8 (25)	B	B	61 (200)	A	B	B	B	B	B	B	B	A	B	A	A	B, C, D	B, C, D	B, C, D	B, C, D	ATMOSPHERIC, LOW & INTER VAPOR PRESS STORAGE			
AA	61 (200)	61 (200)	A	A	61 (200)	61 (200)	8 (25)	61 (200)	A	76 (250)	A	61 (200)	46 (150)	A	3 (10)	A	A	61 (200)	A	61 (200)	A	A	B, C, D	B, C, D	B, C, D	B, C, D	B, C, D	PROCESS UNITS		
BB	30 (100)	30 (100)	A	A	15 (50)	15 (50)	3 (10)	30 (100)	15 (50)	61 (200)	A	30 (100)	61 (200)	30 (100)	5 (15)	A	A	30 (100)	A	61 (200)	6 (20)	5 (15)	30 (100)	61 (200)	61 (200)	A	46 (150)	15 (50)		

Notes:
 1. This table does not account for vapor cloud explosions, customer safety and property protection, environmental or flare vent/stack dispersal requirements.
 2. Distances are in meters (feet).
 3. Distances are from PIP Member Company input.
 4. "A" indicates that an engineering/ safety decision is required. For location of buildings, refer to Section 9.1.
 5. "B" Indicates refer to NFPA 30.
 6. "C" Indicates refer to NFPA 58.
 7. "D" Indicates refer to API 2510.
 8. Greater spacing may be required if control or distribution center serves more than one