



July 10, 2014

Old Dominion Freight Line – 185 Rand Rd – Portland, ME

Employee Count

Position	Current (2014)	5 Year Projection
P&D Drivers	14	20
Line haul Drivers	4	5
Dock Workers	4	8
Supervisors	2	2
Dispatch	1	1
Office Clerk	1	2
Sales	1	2
Manager	1	1
Total Count	28	41

Phase II– Dock Expansion

Phase II consists of adding 5,735 SF of dock area.

Occupancy Type: Dock: Storage S-1
Office/Shop – Business, non-separated use per 508.3 and Table 508.4

Allowable Area: 17,500 SF per Table 503

Actual Area: **Fire Area 1** - 5,406 SF existing dock + 5,735 SF dock addition = 11,141 SF
Actual area is below 12,000 SF that requires automatic sprinkler system per 903.2.9

Fire Area 2 – 2,335 SF existing office + 1,096 SF existing shop = 3,431 SF
Actual area is below 12,000 SF that requires automatic sprinkler system per 903.2.9

Fire Areas 1 & 2 are separated by a 3 hour rated fire barrier.
Per Section 707 – Fire Barriers per Table 707.3.9 - 3 Hr. separation required.
UL Assembly U-419

Total Building Area – 14,572 SF

Floor Area per Occupant: Per Table 1004.1.1 – 100 SF for Business Occupancy
 500 SF for Warehouse Occupancy

Occupant Load: Dock – Storage Occupancy – 11,192 / 500 SF per person = 22.38 Occupants
 Office – Business Occupancy – 3,431 / 100 SF per person = 34.3 Occupants

Exits Required: Dock – Storage S-1 – Under 29 Occupants require 1 exit
 Office – Business – per Table 1015.1 – 49 occupants or less require 1 Exit

Exits Provided: Dock – 2
 Office – 2 Shop - 2

Exit Units Provided: Dock – 33” clear width / .2 (per section 1005.1) = 165 occupants x 2 exits = 330 occupants
 Office – 33” clear width / .2 (per section 1005.1) = 165 occupants x2 exits = 330 occupants
 Shop – 33” clear width / .2 (per section 1005.1) = 165 occupants x 2 exits = 330 occupants

Travel Distance: Per Table 1016.1 – 200’ for a building without sprinkler system

Building Length: Dock – 225’

Plumbing Fixtures

(Office & Shop) 3,431 SF / 100 SF per Person = 34.3 people round up to 35 /2 (Men & Women) = 17.5 Ea.

(Dock) 11,141 SF / 500 SF per Person = 22.28 people-round up to 23 (Dock workers are usually Men

Required Fixtures:	(Business) Office		(Storage) Dock		Total	
	M	W	M	W	M	W
Water Closets	2	3	2	0	4	3
Urinals	1	0	0	0	1	0
Lavatories	1	1	2	1	3	2

Drinking Fountains: 1 High /1 Low Provided

Mop Sink: 1 Provided