

March 20, 2014

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

Employee Count <u>Position</u>	<u>Current (2014)</u>	5 Year Projection
P&D Drivers	14	20
Line haul Drivers	4	<mark>5</mark>
Dock Workers	4	8
Supervisors	2	2
Dispatch	1	1
Office Clerk	1	2
Sales	1	2
<u>Manager</u>	_1_	<u>1</u>
Total Count	28	41

# Phase I – Existing Building Renovation (Currently in Plan Review)

Construction Type:	Туре II В	
Occupancy Type:	Office/Shop – Business, non-separated use per 508.3 and Table 508.4 Dock – S-1 Storage	
Allowable Area:	Business – 23,000 SF / Table 503 Dock – 17,500 SF / Per Table 503	
Actual Area:	Office/Shop – 1,096 + 2,335 = 3,431 SF Dock – 5,406 SF	
Total Area:	8,837 SF	
Floor Area per Occupant: Per Table 1004.1.1 – 100 SF for Business Occupancy 500 SF for Warehouse Occupancy		
Occupant Load:	Office – Business Occupancy – 3,431 / 100 SF per person = 34.3 Occupants Dock – Storage Occupancy – 5,406 / 500 SF per person = 10.81 Occupants	

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

Exit s Provided: Office – 2 Shop - 2 Dock – 2

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

Separation Requirements: Per Table 508.4 – No Separation Requirement

We are providing Separation to accommodate a future dock addition.

Separation Proposed: Per Section 707 – Fire Barriers per Table 707.3.9 - 3 Hr. separation required. Proposing to use UL Assembly U-419

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

Fire Door and Fire Shutter Requirements: 3 hr. per Table 715.4 Doors – Quantity 2 (3 Hr. door, frames and hardware required.) Fire Shutters - Quantity 5 (3 Hr. fire shutters on fusible link)

### Phase II– Dock Expansion

Phase II consists of adding 5,735 SF of dock area.					
Occupancy Type:	Dock: Storage S-1				
Allowable Area:	17,500 SF per Table 503				
Actual Area: Actual area is below	11,192 SF (total) v 12,000 SF that requires automatic sprinkler system per 903.2.9				
Occupant Load:	Dock – Storage Occupancy – 11,192 / 500 SF per person = 22.38 Occupants				
Exits Required: Exit s Provided:	Dock – Storage S-1 – Under 29 Occupants require 1 exit Dock – 2				
Exit Units Provided	: Dock – 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**

## Phase I

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

(Dock)5,406 SF / 500 SF per Person = 10.81 people-round up to 11 (Dock workers are usually Men

	Office	9	Dock		Total	
Required Fixtures:	Μ	W	М	W	Μ	W
Water Closets	2	3	2	0	4	3
Urinals	1	0	0	0	1	0
Lavatories	1	1	1	1	2	2

Drinking Fountains: 1 High /1 Low Mop Sink: 1 Provided

### Phase II

(Dock)5,735 SF / 500 SF per Person = 11.47 people-round up to 12 (Dock workers are usually Men)

Phase II adds 0 water closets, 0 lavatories, and 1 sink