

Westbury Fire Department

Refresher Course I

Engine Operations -

Module 1 – Hydrants, Hose & Nozzles

Hydrant - Riding Position 4 (radio position)

Hydrant Bags – Review all the components:

Hydrant Types:

Westbury Water – Eddy Hydrants – *Counterclockwise - opens*

Roosevelt Field – Corry Hydrants – *Clockwise - opens*

Old Westbury Water – (Red & White Color)

Private/Yard Hydrants – Solid Red or Green

Thread type encountered –

National standard Thread

NYC – (South of Old Country Rd)

Test/Flushing Hydrant

Hooking up to Hydrant procedure

Always Largest outlet

Gate Secondary outlet

Wrap hydrant only after know its operating

Winter precaution – hydrant drain

Standard Hose Types:

$\frac{3}{4}$ " and 1" Booster Lines (*male/female couplings*)

1 $\frac{3}{4}$ " and 2 $\frac{1}{2}$ " attack lines (*male/female couplings*)

5" supply lines – (Hydrant to engine or Engine to Fire Dept Connections / Feed master Stream Appliance)

Lengths 100' dead bead – 50' or 25' roll ups to make up shortage – (*Storz – sexless coupling*)

Standard Hose Packs:

Preconnects & Mattydale - 1 ¾" and 2 ½" - 200'

Dead Bed - 1 ¾", 2 ½" and 5" – Lengths Varies (1 ¾ & 2 ½ - 50' each 5" 100') per

Reels Boosters – 200'

Trash Line 1 ¾" – 100'

Standpipe ("highrise pack") 2 ½" – 300' (6 – 50' lengths)

Nozzle Types:

Solid Steam ("smooth bore")

Fog Nozzle("task force")

Foam - Multiple types (Fog w/ Foam aerator)

Master Stream (portable) / Deck Gun (Fixed to Engine)

Piercing Nozzle

Adaptors and Connections:

Increaser/Reducer

Double Male & Double Female

Thread Changer Adaptors – NST to NYC or IPT to NYC

Universal Thread Adaptor

Siamese/ Wyes

Gates

Bresnan distributor

HANDS ON

Module should have the group:

1. Hit a Hydrant – Lay 125' of 5" and feed Engine (utilizing 25' roll)
2. Pull 2 ½" Mattydale – with smooth bore nozzle
3. Replace middle length with female end to fire, (so double Male & Female adaptors can be utilized)
4. Reduce the nozzle from 2.5" to 1.75" by nozzle and reducer adaptor adding 50" 1.75" with a fog nozzle – Extending the line (review other alternatives)
5. Add a Foam nozzle to Fog nozzle

Module 2 – Sprinklers & Standpipe Operations

Standpipe/Sprinkler/Combo Siamese identification

Red – Standpipe only

Green – Sprinkler only

Yellow – Combo system both Standpipe & Sprinkler

Identification Ring will always be verified – (may have been painted wrong)

When in Doubt Raise Lettering on system connection

Standpipe – always get hit before the Sprinkler System.

Standpipe Systems

System components

OS & Y Valve (wet pipe system)

Fire Dept Connection (FDC) – use storz fitting

System Riser - possible pressure reducing device (to be removed)

Floor outlet Valve –

Supplying the system

Using the largest diameter hose possible – into FDC

*Alternate (2) 2.5" – 1st asap to get system supplied, 2nd as time allows

Double male Adaptor & storz connection – is required for 5"

Feed system from a Floor outlet if problem occur at Siamese. (will need double female)

System supplied at 150psi + 10 lbs per floor.

Standpipe Operations

Standpipe hose (high rise packs 2.5" hose)

Standpipe Bag – (eview all components of Bag)

Nozzle Position – 1 hose pack & Stand Pipe bag

Back up position – 1 or 2 hose packs

Control position – 1 or 2 hose packs - Minimum 4 packs always required)

Set of Irons, K tool and rabbit tool should also be taken in

Pressure Gauge usage: 70(2 lengths) , **80** (4 lengths) , 90lbs (6 lengths)

Use of a 45 elbow to get out a cabinet

Remove any PRD (Pressure Reducing Device)

Flake/ stage hose before opening wheel – floor below, 2 floor below

**Good practice is to have someone check floors layout before committing to fire floor:*

May be easier to stretch the floor below and come up different stairs from the standpipe's, could save you from stretching a smoke filled hallway?

Pump operators: monitor pump pressure – you could alert to kinks, burst line, open valve in syste



Sprinkler Systems

System components

OS&Y valve

Water Gong

Fire Dept Connection – FDC – use of stotz fittings

Supply FDC (Hose & Fitting Requirements) – Chauffer’s should be supervising

Use of Larges Diameter hose Possible

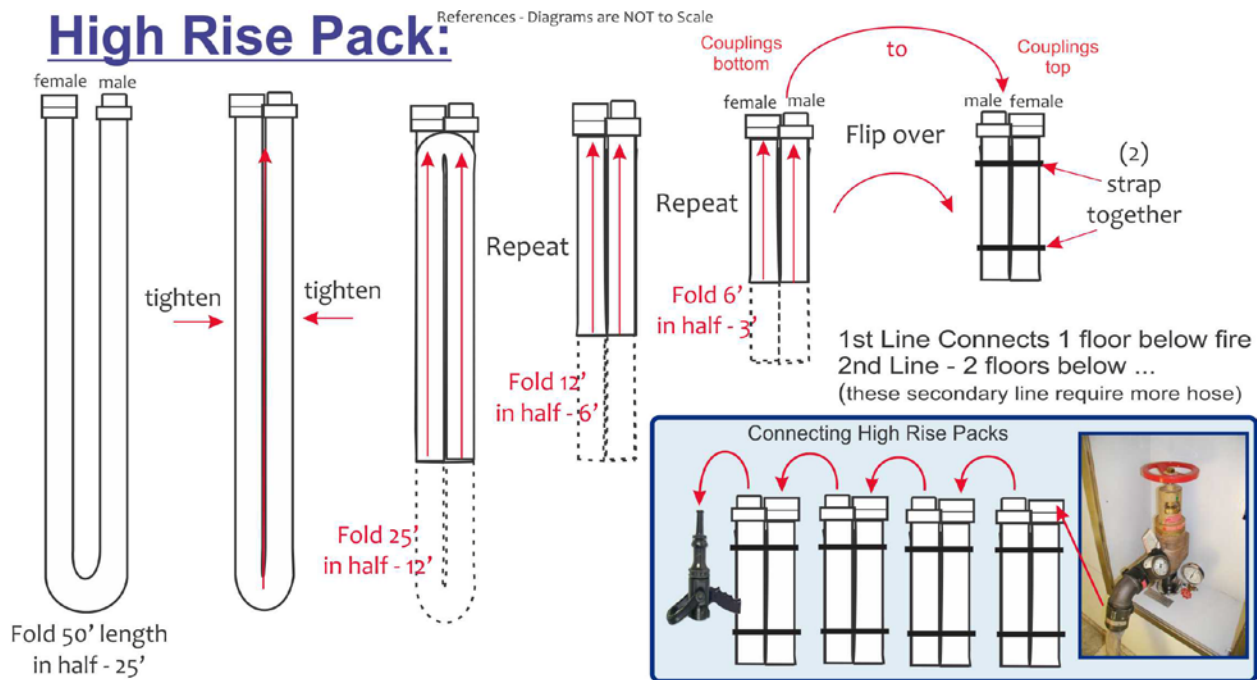
Discuss alternative hose sizes – 2.5”

Fire Pumps Need to be controlled by FD

HANDS ON:

Module should have the group:

1. Feed a Siamese with both a 2.5” and 5”
2. Connect 2 high-rise packs lengths to floor outlet – demo how pack should lay out
3. Demo pressure gauge and 45 elbow
4. Demo how to operate if there is no wheel present
5. Demo how to feed the system is Siamese damaged
6. Repack high-rise packs



Module 3 – Hose Line Operations

Hose Line Positions: (riding positions 1 & 2)

Nozzle

Back Up (1 or More)

Control(s)

Additional personnel as needed for long stretches, multiple story of turns...

Putting Pre-connect/Mattydale into Operations:

Pre set amount of hose – 200' – longer stretches consider alternatives

Consider pressure on line – minimum 2 persons on line

Repacking - Loops

Putting Deadbed into Operations:

Pull the quantity of hose needed for job, minimum 100' at door.

Control should be Couplings coming off rig – this important for pump operator

Repacking

Charged Lines:

Nozzle Operations:

Test – Bleed off air & checks have continuous water before committing to fire

Open/Close slow – prevents water hammers

Fogs – Change pattern – right is tight

Line advancement – discuss nozzle pressures

Coordinate nozzle operations while advancing

Officer carries radio – directs nozzle team

Nozzles operations need to be coordinated with the truck and search teams

Control put bows on line (bow gets smaller – replace, bow larger pull back)

Nozzle sweep floors/ walls – sound make will help you size up area

Nozzle man, have leg out on front of you feeling for holes in floor

Estimating Stretches – How much to door, 1 per floor, 100 fire area – MPO need to know this total
300' Max for 1 ¾", if longer needs to be reduced from a 2 1/2" hose

HANDS ON:

Module should have the group:

1. Pull and put a pre-connected line into operation
2. Pull 100' dead bed and put into operations
3. Review advancing, setting Loops, up stairs, nozzle patterns and their uses
4. Review repacking both – pre-connect and dead bed (noting loops)

Module 4 – Master Stream Operations

Deck gun – Pre-piped to engine

Portable master stream

Feed by 5" or multiple 2.5"

Feeding to another Apparatus

Engine – Relay pumping

Ladder – for Master Stream

HANDS ON:

Module should have the group:

1. Demo how to put Deck Gun into operation
2. Put a portable master stream onto operation
3. Feed another apparatus utilizing the 5" discharges

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