

Industrial Firefighting Pool (IBP)



Startings points

Decisive fire scenario's:

? “Largest possible tank surface” ?

Defined as:

- Largest tank (mineral: $d = 89 \text{ m}$; $h = 22 \text{ m}$)
- Largest tank (polar : $d = 65 \text{ m}$; $h = 30 \text{ m}$)

Existing equipment Unified Industrial & Harbour Fire Department insufficient:

Maximum capacity 3 industrial fire trucks + 3 large monitors insufficient: \rightarrow 45 meter diam. (18.000 l/min)

Analysis

Mobile FiFi system with a capacity of:

- Mobile – large surface (NFPA 11): → 10,4 liter/m²/min
- Mineral: 89 m → 6221 m² → 65 m³/minuut
- Polar: 65 m → 3318 m² → 35 m³/minuut
- Concentrate ind.: (3%) → 2 m³/min → 120 m³ (3%) + 100% spare
- Distance: 115 m to centre of tank at 22 m height
- Transportation length: max. 1500 m from waterside
- And employable within 4 hours

Finances

- Who?
 - ✓ 18 companies (by regulations of environmental agency)
 - ✓ Volunteers
- How?
 - ✓ By memberships
 - ✓ Three types: A, B of C
 - A = Only foam concentrate
 - B = A + monitors (Fifi-units)
 - C = Total system

Which companies



IBP

- **Equipement**

- 3 Hoseretrievers
- 1 Manifold-unit
- 2 FiFi-units
- 1 Hose-unit
- 6 trailer with foam concentrate 20 m³
- 4 (5) quick foam concentrate containers 10 m³

- **Organisation**

Hoseretriever



- 1.5 km transport length.
- 8 * 8" hoses at once.





Manifold-unit

- Anchor point
- T-junction
- 24 connections for 8" hoses



FiFi-unit

- 2 units
- 37.500 l/min per unit
- Throw: 115 meter at 22 meter height



Hose-unit

- Reels with 'short' hoses (10,15, 25, 40 en 50 meter)
- Barrows



Foam concentrate trailers

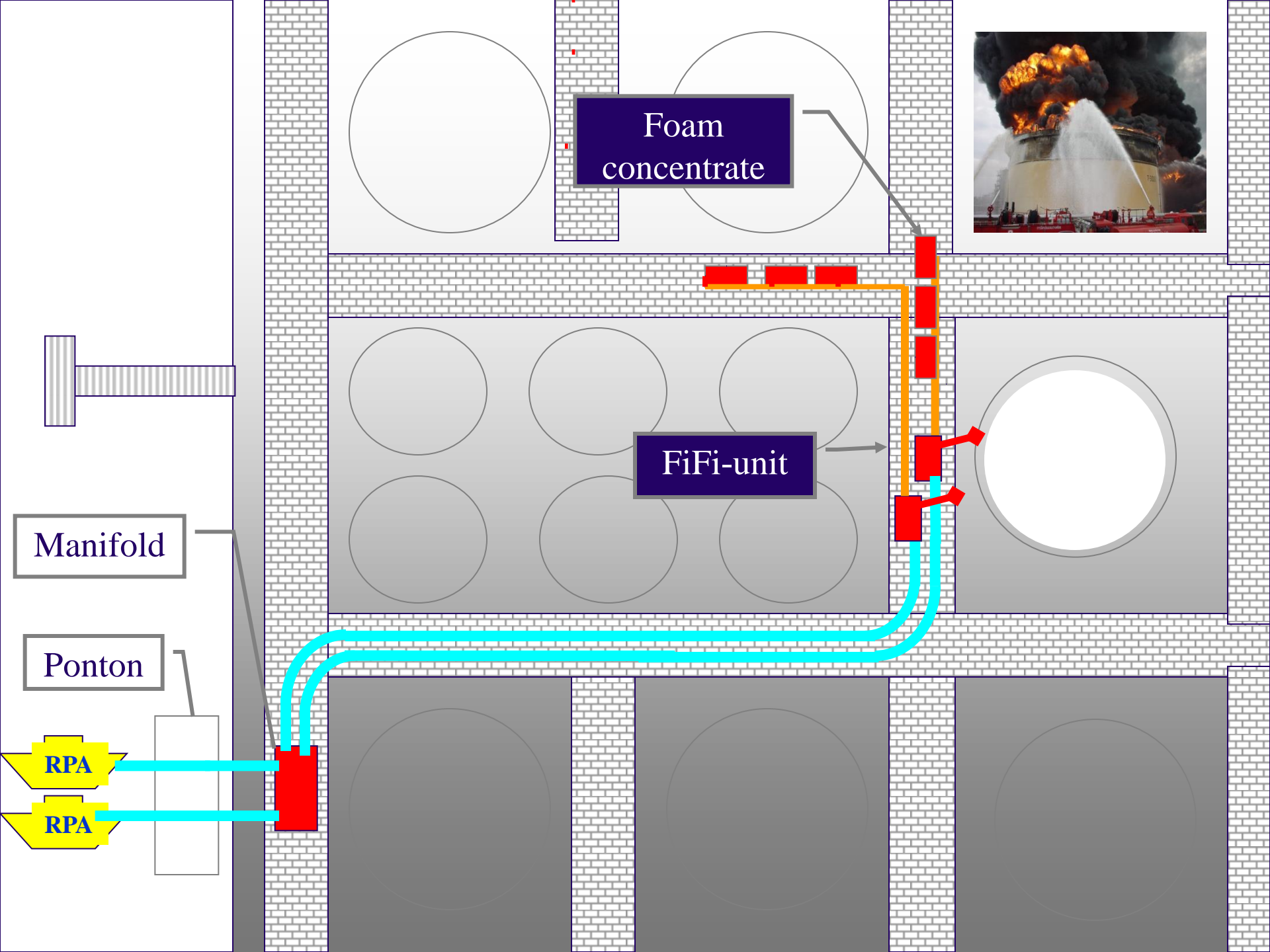
- 6 trailers
- 20 m³ foam concentrate
- Moussol APS 3/3



4 quick response containers

- 10 m³ foam concentrate
- Moussol APS 3/3





Foam concentrate

FiFi-unit

Manifold

Ponton

RPA

RPA

Organisation

- **Testresults very important for:**
 - Pre-planning
 - Procedures
 - Education and training
- **Logistics:**
 - Agreement with transport company
 - Preparing special trucks
 - Maintenance
 - Smart storage

Foam concentrate

- Tests to determine if our standard foam concentrate is usable;
- Method: Like Lastfire suited for IBP;
 - (Crude oil, leaded petrol);
- Good results with Moussol APS 3/3;
 - Also with 1% induction;
- 120 m³ bought.



Time line

- September 12th, official delivery;
- November 2006, IBP employable;
- Januari 1st 2007, personnel fully trained;
- Total system practice in April 2007.

Area of employability

- First priority is the Rotterdam Harbour and Industry area;
- Afterwards examining if the IBP is useable outside this area.



Questions?