



Ammonia accident as trigger for changing safety paradigm



Ran Cohen Ministry of Labor and Welfare IL-OSHA

JRC-Italy June 2017





Safety & Health Administration

Process safety in Israel- regulators main players

Ministry of Transport and Road Safety



Transportation law and its regulations (1997)

Licensefor dangerous materials vehicles.
HazMat

HazMat transportation directives.

Ministry of Labor



Explosives law (1954), oil holding (1976)

1. Employee safety

License of explosive materials and oil holders

Fire and Rescue Services



Fire department law (2012)

1. Fire prevention

2. Training emergency teams.

Home front command (HFC)



Civil law (1951)

Preparedness of HAZMAT holders for emergency events.

Physical Protection of HazMat. Ministry of Environmental protection



Hazmat law (1993)

1.License to hold and use Hazmat.

Preparedness to Hazmat accidents.

 Prevention of environmental risks.





Safety & Health Administration

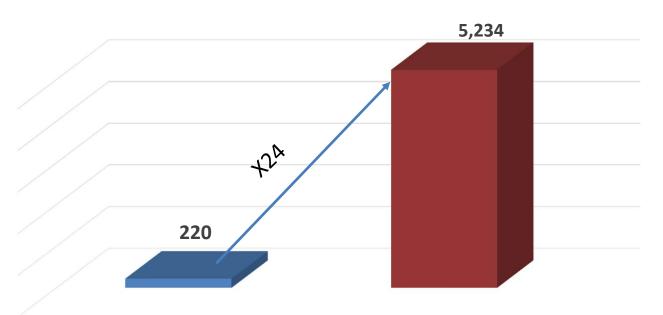
Subcontractors as a weakness point







Sub contractor -Registered accidents in main chemical plants (2012-2014)



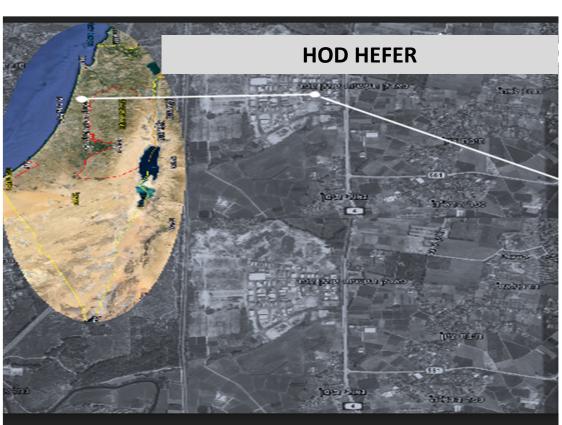
Registered accident -OSHA

Registered accident -National Insurance





'Hod Hefer'- Chain of event



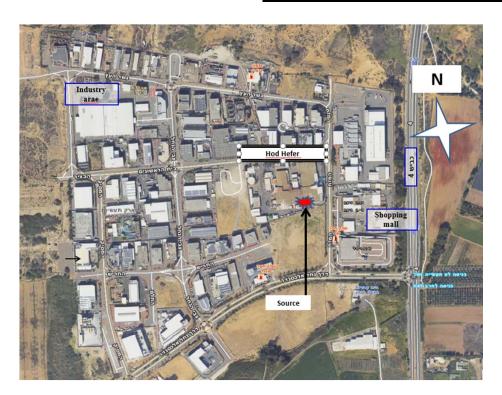
'Hode Hefer'- ID

- Part of 'TNUVA' group since 2009
- Distance to population-1Km
- 30 Ton Ammonia
- Storage facilities: 2 closed systems





'Hod Hefer'- Chain of event



- On Nov 7 2014, Sub contractors performing renovation of ammonia facility
- After lunch break, the contractors were separated from company representative in order to continuing their work







- At 2pm sub contractor drilled 1 inch diameter hole in active ammonia pipe
- 6 Ton ammonia leaked.
- 1 person killed ,20 injured
- Industry area were evacuated .





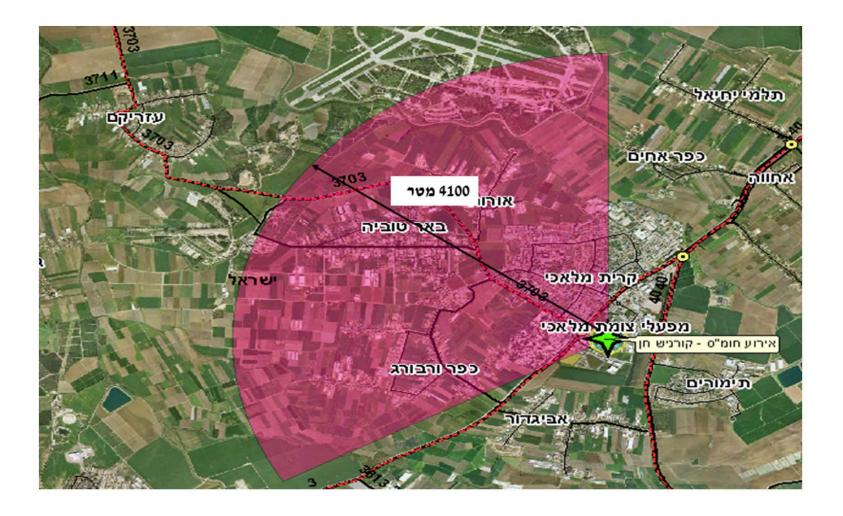
Safety & Health Administration







Safety & Health Administration







Main steps which were taken

Cooperation with MoEP (Hazards Permits, IL-EMARS)

Mandatory obligation for safety officer in large contractors companies

Executing of joint regulators inspection teams

COP for safety management of sub contractors

1 2 3





