



OFF-SITE EMERGENCIES
Road Transport Accident

CASE FOR ACTION

- Legal Obligation
 - OSH Act Occupational Safety & Health Act (OSHA) 1994
 - OSH Industry Code-of-Practice for Road Activities 2010
 - DOE / FIRE Service Act
- Poor RT Haulier Preparedness and Response Capability
- High Malaysian On-The-Road Exposure to Road Accidents
- Potential Escalation of Liability
- Responsible Care Obligation

ROAD TRANSPORT EMERGENCY RESPONSE NEED

Its estimated.... Heavy Vehicles on Malaysian Roads = 500,000
 Serious Heavy Vehicle Accidents = 25,000/year



With DG Cargo the product are ...
 Explosive, Volatile, Flammable,
 Carcinogenic, Toxic, Corrosive,
 Unstable, Radioactive, Poisonous,
 etc



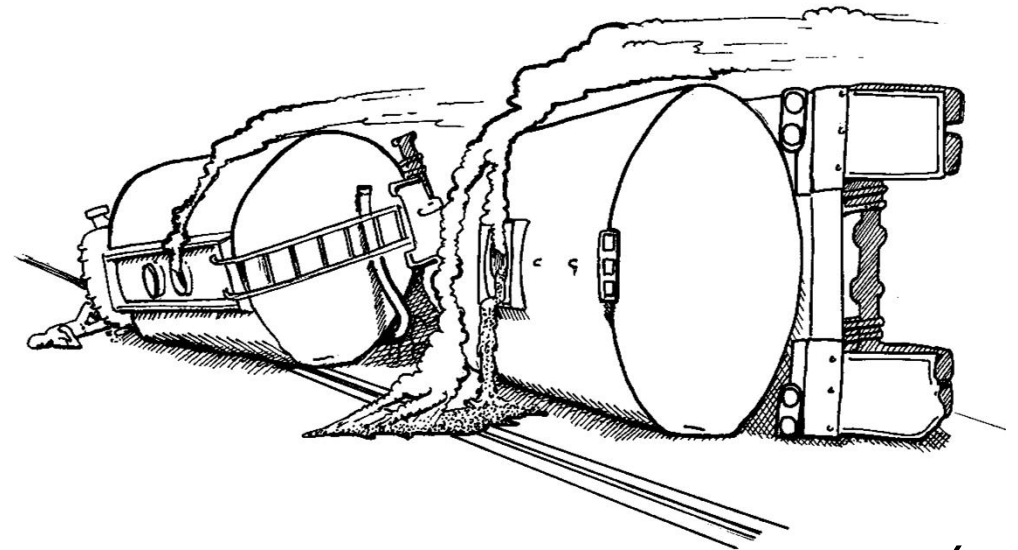
EMERGENCY COORDINATION *INFORMATION MANAGEMENT*

- Source information from relevant parties
- Verify information whenever possible
- Do not release unverified information
- Get the event details – right and verified
- Get details about people & safety
- Get details of emergency response actions
- Confirm time of event and maintain a chronological time log
- Ascertain time of critical events such as time of incident escalation, time of incident under control, etc
- Probe the site if escalation factors have been considered and barriers put in place to avert such incident escalation
- Prepare & seek approval of press holding statement from senior company officials

LET'S LOOK AT A ROAD TANKER EMERGENCY

GET EVENT DETAILS *RIGHT & VERIFIED*

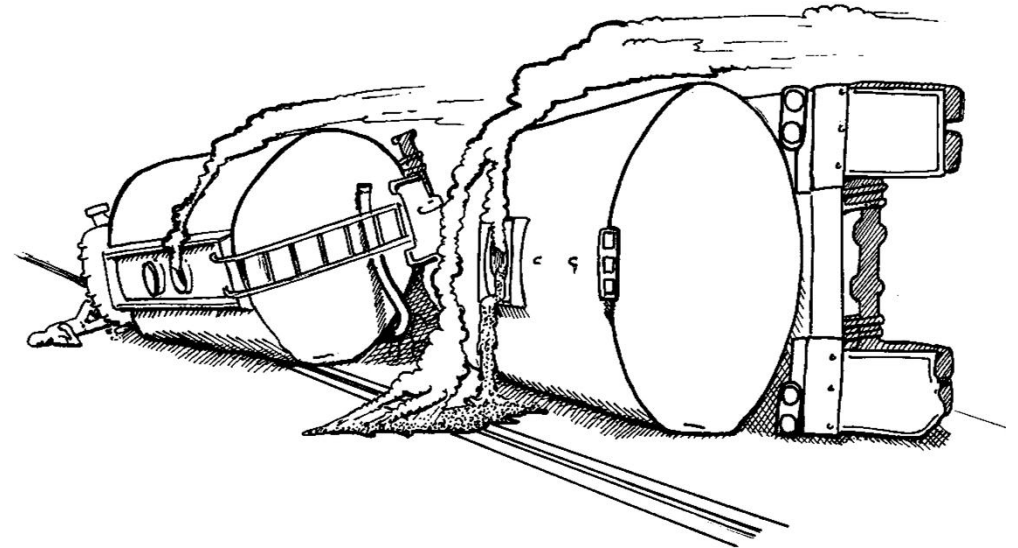
- Log time and event as it unfolds at the incident site as accurately as possible
- Description of the incident, type - accident with injury / spill / fire
- Location, Surrounding environment built-up
- Day, Date, Time & Weather
- Injuries if any, get details of number
- Mobility of tanker – can it moved
- Product containment



EVENT DETAILS *RIGHT & VERIFIED*

Details of Driver & Helper

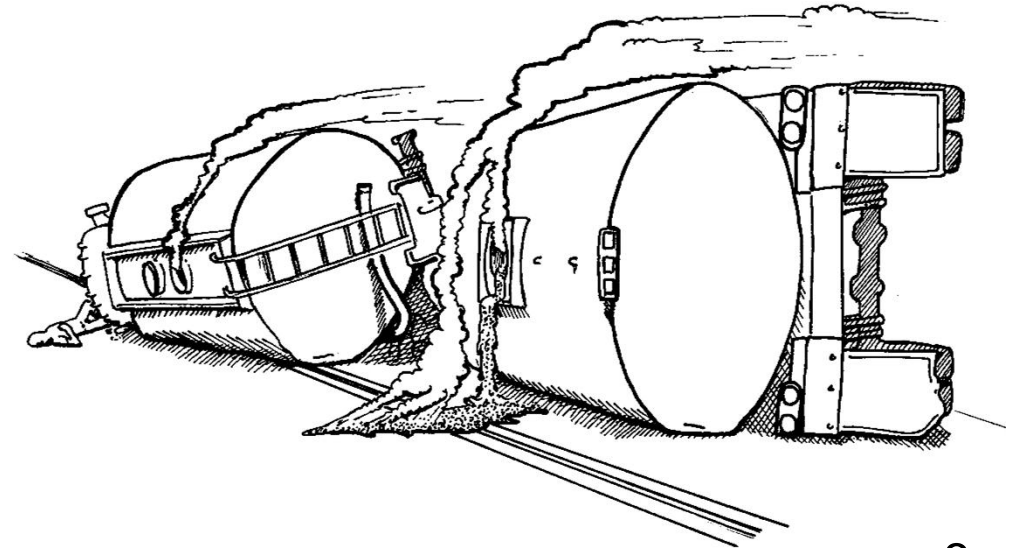
- Name
- Age
- Nature of injury if any, current condition & whereabouts
- Has next keen been informed (corporate obligation)



GET EVENT DETAILS *RIGHT & VERIFIED*

Details of Tank Truck

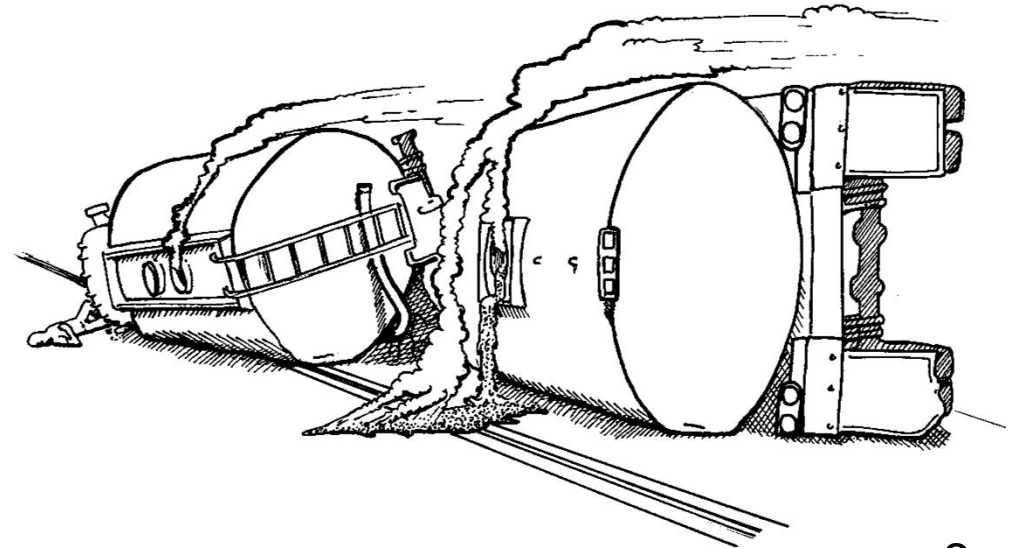
- Registration number
- Permitted capacity of tanker
- Approval permits if any
- Type of truck – Rigid or Articulated
- Tank compartment size & number



GET EVENT DETAILS *RIGHT & VERIFIED*

Details of Product

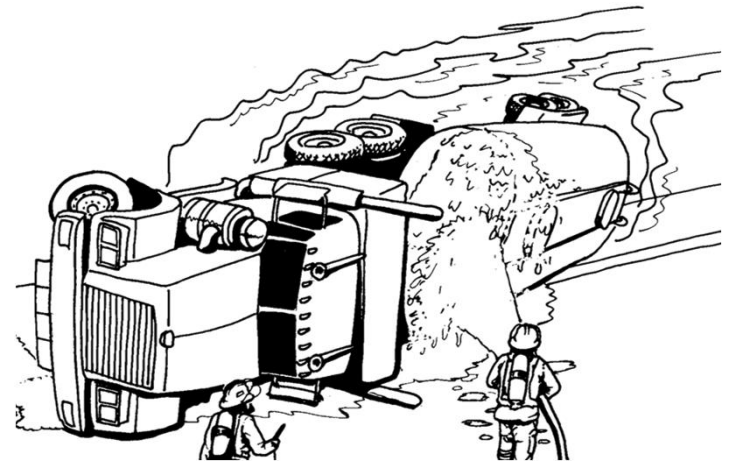
- Type of product
- Product capacity at time of accident
- If spillage is involved, request for estimate updates
- Product amount recovered estimates
- Ascertain amount of product loss



GET EVENTS DETAILS *RIGHT & VERIFIED*

Who is at incident site

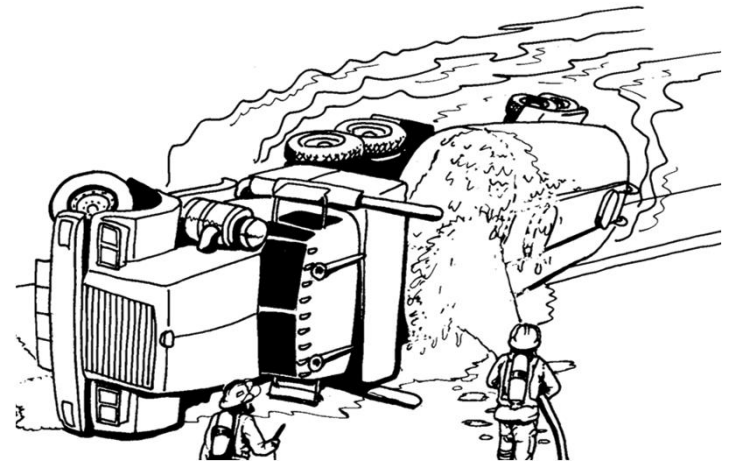
- Have the authorities been informed
- Are the authorities at site - Who
- Are there haulier personnel at site
- Are the haulier driver / helper contactable
- Request SERT (Flying Squad) to report on reaching the accident site for incident updates



GET EVENTS DETAILS *RIGHT & VERIFIED*

Haulier ER Team

- Has the haulier ER Team been mobilised & when
- How many persons are in the ER Team
- What ER equipment do they have
- What equipment would they need
- Time of arrival of haulier ER Team at incident site
- What actions have been taken



GET RESPONSE ACTION

- Has the spill flow been contained & when
- What response actions to contain spill
- Has the leak been plugged or minimised & when
- Has the site been contained, no product flow nor leak & when
- Has product transfer started & when
- Has product transfer finished & when
- What amount of product has been recovered
- Has the recovered product moved out & when
- Can the tank truck be up-righted safely, with safe equipments
- Has site clean-up started (finished) & when
- Where / Who does the waste disposal

INCIDENT ESCALATION FACTORS

Prompt the site of the escalation factor that can cause more harm to people, environment and property, eg...

- An accident with leak and product spill that is flowing can still be managed but once it ignites we have no control of the incident because we do not have the capability nor the authority.
- A spill can be ignited if allowed to flow to areas of sources of ignition
- A spill will flow hence it has to be banded as soon as possible
- Primary objective in leaks is to STOP FLOW of product and then stop leak. (Easier to stop flow than leak)

INCIDENT ESCALATION FACTORS

Product flow is hastened by

- Land terrain – gradient
- Waterways – drain, stream, rivers
- Rain – rain water hasten product flow
- Fire water hasten product flow but fire fighting foam can be used to suppress product vapour as foam does not flow

Product flow containment by

- Directing product into drains and using sand bags
- Digging trenches
- Using absorbents
- Suction using pneumatic diaphragm pumps

OFFSITE EMERGENCY COORDINATION CORE FUNCTIONS

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END OF PRESENTATION

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