



DISASTER FORUM 2015



RISK MANAGEMENT PROFESSIONAL

**Providing Effective Risk Management Solutions
for 25 Years**

TABLE TOP EXERCISE



Disaster Forum Concurrent Table Top Exercises

Session Title: **Practicing Collaboration**

Date: Tuesday, May 12

Time: 1330 to 1500

Location: Max Bell Building.

COMMUNITY PROFILE - Anytowne

Anytowne

- Population – 50,000
- Located east of Smallville
- Major transportation hub for road and rail traffic
- Centre of county government
- Provincial government offices
- Home to:
 - A 300 bed hospital located 1.5 km east of the refinery
 - Six BLS and two ALS ambulances
 - Three extended care facilities with a total of 165 residents among them. Located between 1 and 3 km from the refinery
 - An 85 person full time fire department with a team of trained hazardous materials responders (technician level)
 - Ten elementary, four junior high, two high schools and a community agricultural college
 - SuperGas Inc. refinery.
 - Produces 250,000 bpd of synthetic crude oil.
 - Produces 5,000 bpd of solvents
 - Tank farm of six tanks each w/100,000 barrel capacity
 - Operates 24/7 with a staff of 375.
 - Number of staff on day shift is about 265
 - Operates truck and rail loading facilities.
 - Bitumen is brought into plant by pipeline
 - Bitumen is diluted with petroleum products called such as naphtha.
 - Diluents to make it easier to transport Bitumen by pipeline.
 - Bitumen diluted with Diluent is referred to as DilBit.
 - Trained ERT made up of plant operations and maintenance personnel.
- The Hanover River runs by the SuperGas refinery on the town's boundary with Smallville

COMMUNITY PROFILE - Smallville

Smallville

- Population – 9,750
- Located west of Anytowne
- Home to
 - One extended care facility with a total of 37 residents. Located 500 metres from the refinery
 - Two BLS ambulances
 - Volunteer fire department with a full time fire chief
 - Four elementary schools, one junior high and one regional, composite high school
 - A provincial, low security correctional facility located 2 km from the refinery.
 - An oil recycling plant (Revive HydroCarbons Inc.) located on the SuperGas refinery's fence line about 50 metres from the burning truck loading uprisers.
 - A major electrical power switch yard located 50 metres from the SuperGas refinery's east fence line.
 - Utility company operates sewer and water services in addition to electrical distribution system in town. .
 - A high pressure (500 psi) natural gas line runs along the SuperGas refinery fence line near the tank farm.

Opening Scenario:

- Wind speed: 15Km per hour
- Wind Direction: from the West blowing East
- Ambient Temperature: 15 *C
- Humidity: 70%
- Cloud Cover: Clear skies

At 1245 Hrs on May 12th, a small plane crashes into the SuperGas refinery in Anytowne Alberta. It strikes a truck loading upriser and a tank of diluted bitumen. The refinery is located on the north/south boundary between Anytowne and Smallville. Each municipality has its' own emergency response agency and different jurisdictions. The resulting crash ignites a tanker truck which causes the refinery to release a large volume of product. The whole area is on fire and there is significant risk of the nearby rail loading terminal being impacted. Black smoke billows from the site and the heat of the fire is exceptional.

The burning product overflows the berm surrounding the upriser. The majority of the burning product will flow over the parking lot and down the road into a ditch that empties into the Hanover River.

Smoke from the fire is billowing out over the town. The refinery has mobilized its' emergency response team (ERT). The team is at the scene of the crash and is conducting an evaluation of the situation. The Switchboard at the Anytowne City Hall is receiving calls from residents who have witnessed the crash.

Questions for discussion:

1. What do the town and city expect from the refinery in the way of notification?
2. What does the public need for notification?
3. How is this information made available?
 - a. To the town and city?
 - b. To the public?
4. How would you determine the hazards of this situation?

OPENING SCENARIO QUESTIONS

1. What do the town and city expect from the refinery in the way of notification?

2. What does the public need for notification?

3. How is this information made available?
 - a. To the town and city?

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4. How would you determine the hazards of this situation?

Scenario Escalation:

Time: 1330 Hrs.

The refinery ERT Incident Commander reports that the fire is out of control and advises that public protection measures be implemented. Both communities have activated their EOC's, as has the refinery. It has been reported that the product that is burning is Dilbit.. The volume of product in the burning tank is 2000 bbl (318,000 litres). Thick black smoke is drifting over Anytowne. Switchboards at the refinery, Anytowne City Hall and Smallville town office are going crazy,. Residents can see the smoke and are worrying about their safety. Many of the callers are in the cloud of smoke coming off of the fire.

This is what is known at this point:

- RCMP have declared a NOTAM for the area.
- The pilot was trapped in his aircraft and feared to be dead.
- Although the death of the pilot is tragic, there have been no other fatalities reported.
- A plant operator and truck driver are unaccounted for at this time.
- Power is out in areas of Anytowne and Smallville.
- The Incident Commander advises that he thinks that the natural gas pipeline may have been struck by the plane as it went down. He is concerned about the integrity of the line.
- Three elementary schools and one junior high school in Anytowne are in the plume..
- Several extended care facilities, with their numerous frail, elderly residents are in the plume as well. There are increasing complaints of these people being in respiratory distress
- Anytowne Hospital reports that the emergency room is being overwhelmed with people complaining of breathing difficulties.
- Reporters from several newspapers, radio stations and TV stations are at the scene. News coverage is sensationalizing the situation. This is causing elevated levels of anxiety amongst citizens of both communities.
- Media are speculating that the aircraft was a drone and there may be security implications.

Questions for discussion:

1. What are the major collaboration issues facing these two communities and the refinery?
2. What is the best way to bring all of the responding organizations together to deal with the issues that they are facing? Can this be done through:
 - a. planning ?
 - b. training?
 - c. policy?
 - d. political action?
3. Discuss how this has been done in your community/company.

ESCALATION SCENARIO QUESTIONS

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2. What is the best way to bring all of the responding organizations together to deal with the issues that they are facing? Can this be done through:

a. planning ?

b. training?

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3. Discuss how this has been done in your community/company.

