



ERCBC Emergency Preparedness and Planning: Directive 071

Presentation to BalCAP
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Presentation Overview

- **Directive 071**
- **Emergency Planning Zones (EPZ's)**
- **ERCBH2S Modeling**
- **Public and Emergency Planning**
- **ERCB's Emergency Planning and Assessment Section**
- **Emergency Response Key Messages**
- **Questions**

How does the ERCB ensure companies can respond to emergencies?

Directive 71: Emergency Preparedness and Response Requirements for the Petroleum Industry

- When ERP's (Emergency Response Plans) are required
- ERP content and maintenance schedules
- Public and government agency involvement
- Consultation and notification requirements
- Frequency of ERP exercises
- Direction on calculating response zones

What do the changes in Directive 71 mean to the public?

Continued Improvement of Public Safety

- More precise plume modeling
- More representative of hazard
- More effective response

What is an “EPZ”?

Emergency Planning Zone (EPZ)

- **Calculated for wells, pipelines or facilities with an H₂S content of 0.01% or greater**
- **Basis for planning response to a sour gas release should one occur**
 - How far will a plume travel?
- **Geographical area surrounding a well, pipeline or facility**
 - Rivers, lakes, and dead end roads are taken into consideration

Why were EPZ's changed?

2000 Public Safety and Sour Gas Committee

Recommendation #58: Review approach for determining EPZ's on the basis

- ***Health effects***
- ***Dispersion modeling and probabilistic risk assessment methodology***

What is ERCBH2S Modeling?

Tool to more accurately predict plume dispersion

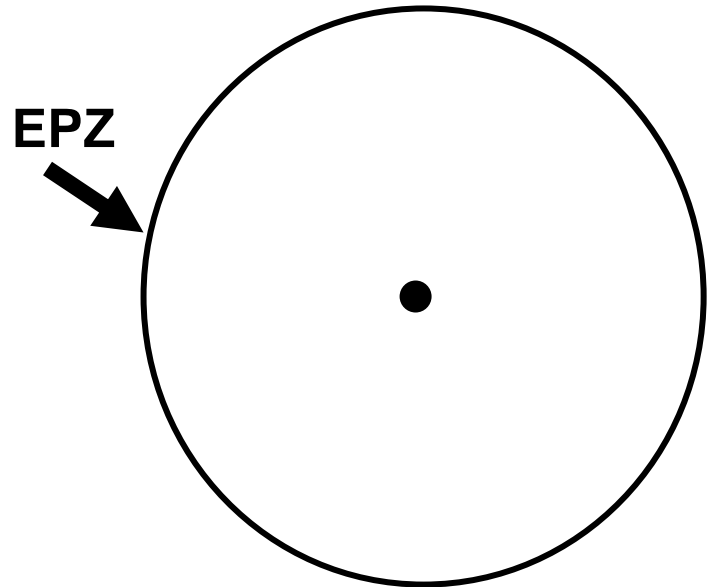
- H2S Concentration
- Well Release Rate
- Meteorological Data (NEW)
 - Probability of conditions from historical weather data
- Pipeline Lengths and Operations (NEW)
- Type of accidental releases (NEW)

How were EPZ's calculated before ERCBH2S?

The input data used was:

- Release Rate
- Release Volume

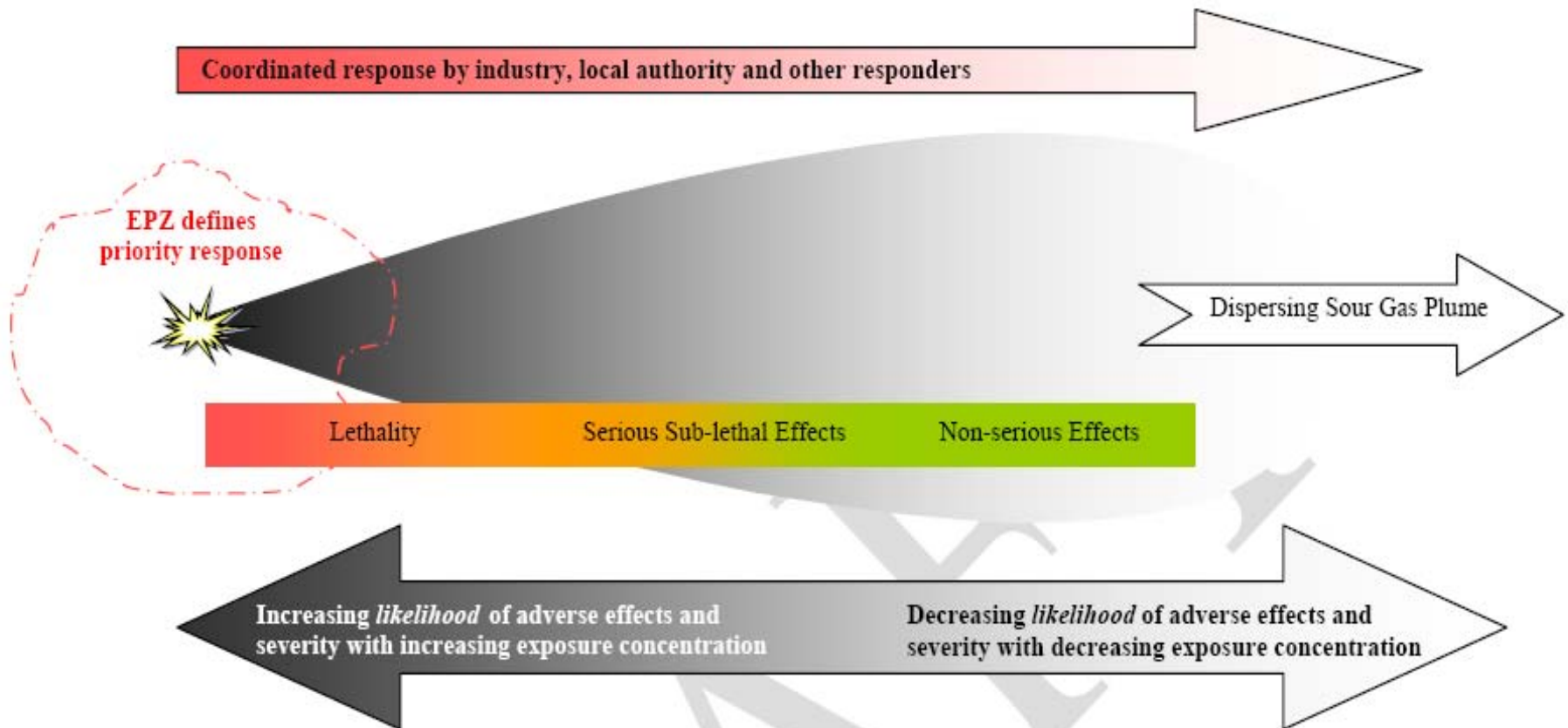
All response actions were based on EPZ



What is ERCBH2S Modeling?

Tool to more accurately predict plume modeling

Figure 1 – Illustration of Response to a Sour Gas Release



I was in an EPZ before, but now I'm not. Why?

New Technology and Better Science: ERCBH2S Modeling

- **Industry is now better able to predict how a plume would travel**
- **Old science for predicting potential impact is 30 years old**
- **Better managed response and focus resources where required**

How is the public involved in emergency planning?

Consultation and Notification Requirements: Packages are to be provided to public within EPZ's

- **Detailing the operations**
- **Impact a potential emergency may have on them**
- **Procedures in place to respond to an emergency**
- **Public protection measures**

How is the public involved in emergency planning?

Collection of personal information

- **Only information that is directly relevant to emergency response**
- **Residents are not obligated**
 - Those who do not wish to provide information are identified as “special needs” in the ERP

How is the public protected if an emergency occurs?

- **Regulations**
- **Protection measures**
 - Notifying people in EPZ
 - Sheltering in place
 - Evacuation of EPZ
 - Ignition of release

What can the public do?

- **Ask questions! Education is key**
- **Get involved; participate in synergy groups, industry exercises**
- **Understand your role in emergency response**
- **Industry relationship, Shelter In Place, Evacuation centres**
- **Be prepared, 72 hour emergency kits**

What ERCB group is responsible for Directive 71?

Emergency Planning and Assessment (EPA)

- Emergency Response Plan Application
- Emergency Response Assessment
- Post incident investigation participation
- Enforcement

ERCB Emergency Response Key Messages

- **The ERCB will always respond to an oil and gas emergency**
- **If warranted, an Inspector will go to the incident command post**
- **If warranted, an ERCB Air Monitoring Unit will be deployed to the incident**
- **Depending on the emergency, the ERCB may choose to do detailed investigation and write a public report**

ERCB Emergency Response Key Messages

- **Every field centre has a 24 hour number**
- **Public safety is priority**
- **If warranted, ERCB staff will be involved to communicate with the public during and after the incident**

Questions?



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