

# PIPELINE SAFETY

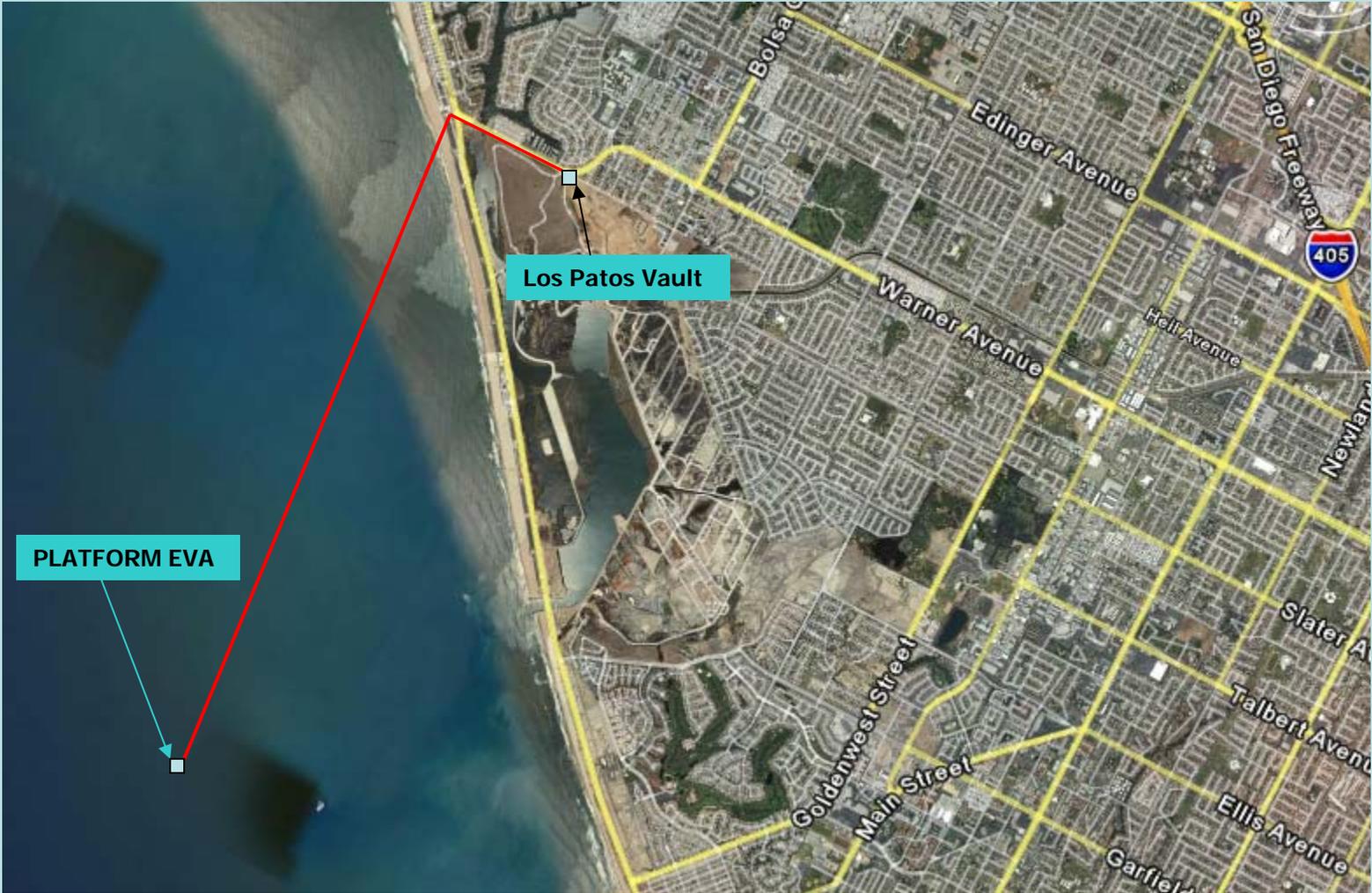
## PLATFORM EVA TO SHORE GAS PIPELINE

### Agenda

- Location of Pipeline
- Pipeline Information
- Regulatory Overview
- Gas Gathering Determination
- Integrity Management and High Consequence Area
- Major Programs
  - OQ
  - O&M
  - IMP
  - Drug & Alcohol Program

# PIPELINE SAFETY

## PLATFORM EVA TO SHORE GAS PIPELINE



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### **Pipeline information:**

Year constructed- 1964

Size OD- 8.625"

MAOP-230 psi

NOP-92 psi

Total Length- 22,709'

Replacement (portions)- 1983, 1994, 2001

Grades- API 5L X42 ERW, A53 GRD B ERW

Coating- Mastic, Fusion Bonded Epoxy, Polyethylene, X-true coat

Design Pressure- Riser 1,308 psi, Mainline 1,753 psi, Bridge 1,014 psi

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

**Who regulates this pipeline and what regulations are applicable:**

- California State Lands Commission- Article 3.3 2132 (h)

**ALL**

- Pipeline Hazardous Materials Safety Administration 49 CFR Part 192

**A determination of the line must be made, is it a regulated gathering line or transmission line?**

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

### **Steps taken to make a determination of a line under part 192:**

1. Make a gas gathering determination. How? 192.8(a) states that an operator must use API RP 80 to determine if an onshore line is a regulated gas gathering line.
2. The determination is subject to the limitations in 192.8(a)1-4
3. 192.9 Offshore gathering lines must comply with the requirements applicable to transmission lines, except the requirements in Part 192.150 (ILI) and in subpart O.

**Eva gas line does not meet the definition of a gathering line and therefore is a gas transmission line.**

# PIPELINE SAFETY

## PLATFORM EVA TO SHORE GAS PIPELINE

What else applies to a transmission line?

What about subpart O- Gas Transmission Pipeline Integrity Management (IMP)?

An operator must determine if their transmission pipeline, or pipeline segment, is within a High Consequence Area (HCA).

HCA is defined in 192.901.

How does an operator identify an HCA? 192.905- One of two methods may be used in identifying an HCA

Method 1- Class locations

Method 2- Potential Impact Radius (PIR)

$$r = 0.69 \sqrt{p \cdot d^2}$$

0.69= factor for natural gas

p= MAOP

d= nominal diameter of pipe

**Eva Gas Pipeline PIR= 90ft**



Identified Site- An outside area that is occupied by 20 or more persons on at least 50 days in any 12 month period

90 ft radius

Eva 8.625"/ MAOP 230psi  
Natural Gas PIR Calcs

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Pointer 33°42'46.07" N 118°03'56.18" W

Streaming 100%

Eye alt 1452 ft



90 ft radius

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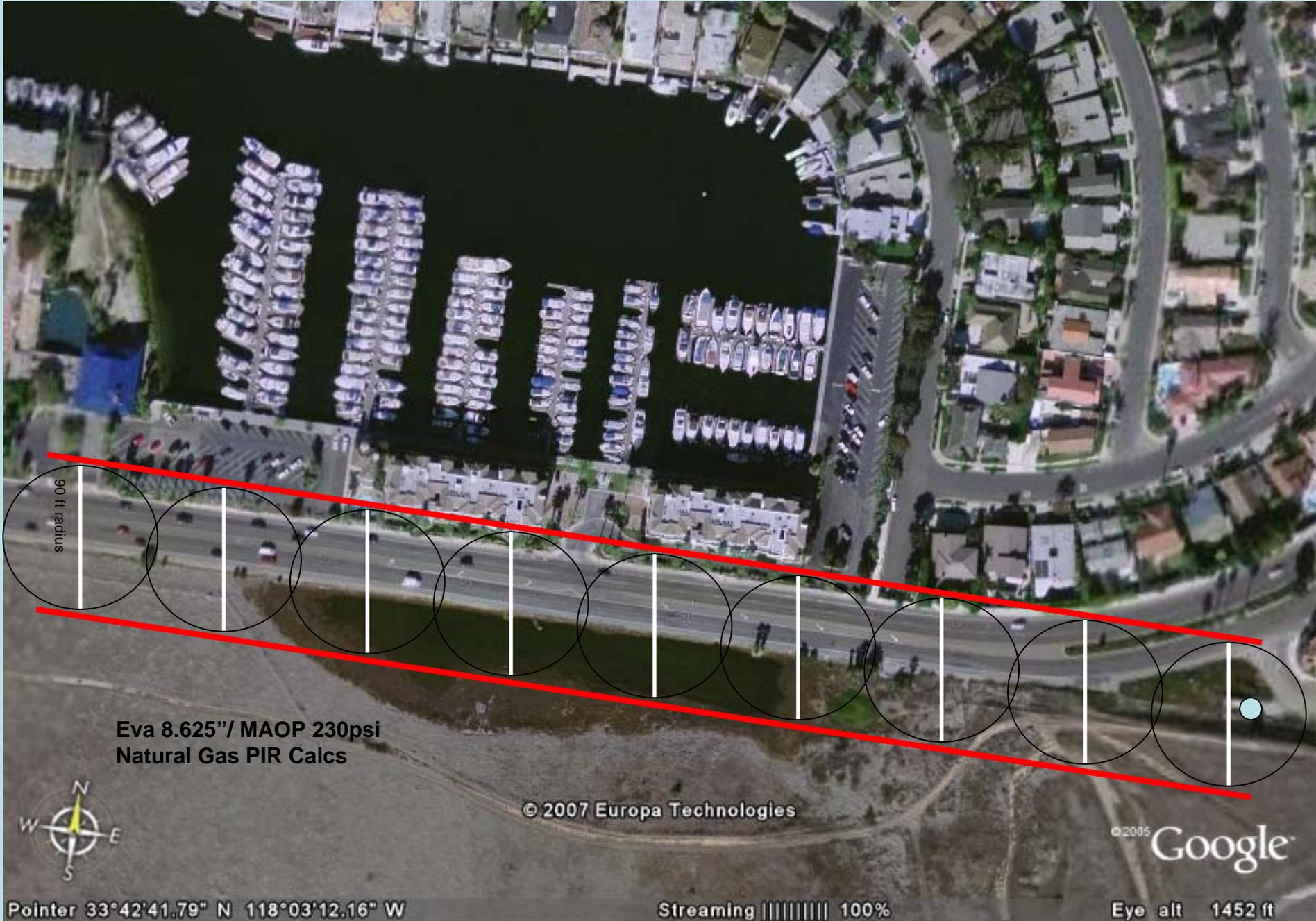
Eva 8.625" / MAOP 230psi  
Natural Gas PIR Calcs

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Pointer 33°42'43.56" N 118°03'32.70" W

Streaming 100%

Eye alt 1452 ft



90 ft radius

Eva 8.625''/ MAOP 230psi  
Natural Gas PIR Calcs



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Pointer 33°42'41.79" N 118°03'12.16" W

Streaming ||||| 100%

Eye alt 1452 ft

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

Now we have identified the applicable regulations.

What are the major programs within Part 192?

Operator Qualifications

Operations & Maintenance

Integrity Management

Are there any other PHMSA regulations applicable? Yes

Drug & Alcohol Testing 49 CFR Part 199

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

Operator Qualification of Pipeline Personnel (OQ)

This program includes the following elements:

Identification of qualified individuals

Identification of covered tasks

Qualification method's

Written exam

Job Performance Evaluation

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

### Operations & Maintenance

This program includes the following elements:

- Pipeline failure, reporting, and investigation

- Plans and Programs

- Patrolling and Surveillance

- Pipeline corrosion control

- Valves

- Operating pressure limitations

- Repair construction and welding

- Odorization

- Safety & Security

- Test Requirements

- Pipeline Specific O&M

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

Integrity Management

This program includes the following elements:

- ID of HCA's

- Baseline Assessment

- Threats and Risk Assessment

- Direct Assessment

- Remediation and Repair

- Continual Evaluation and Assessment

- Preventive and Mitigative Measures

- Performance Measures

# **PIPELINE SAFETY**

## **PLATFORM EVA TO SHORE GAS PIPELINE**

Drug and Alcohol Testing

This program includes the following elements:

- Pre-employment

- Post Accident

- Property Damage

- Random

- Reasonable Cause

Effectively manage your pipeline  
and stay out of the hot seat

Mike Finch



# THANK YOU

Mike Finch, REA

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