

City of Carson Oil Code Amendment

Workshop Presentation

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***Prepared By:
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***Prepared For:
City of Carson***

Workshop Agenda

- City introduction
- MRS Presentation
- Filling out and collecting question cards
- Answering question cards
- Workshop breakout discussions (tables and boards)
- Conclusion/Upcoming Schedule

This presentation presents a summary of the MRS approach to preparing a revision to the City of Carson Oil Code

- About MRS
- General Approach to Preparing the Oil Code Amendment
- The MRS Team
- Technical Issue Areas
- Special Issues Related to Oil and Gas Development

MRS is uniquely qualified to address the impacts associated with oil and gas production projects.

- E&B Hermosa Beach Oil Project
- Whittier Main Oil Field Development Project EIR
- Baldwin Hills Oil Field CSD EIR and Codes and Policies
- Development of Santa Barbara County Oil Codes and Policies

MRS is uniquely qualified to address the impacts associated with oil and gas production projects.

- Excelaron Huasna Valley Oil Project EIR
- Paredon Oil and Gas Drilling Project EIR
- Ellwood Pipeline Company Line 96 Modification Project EIR
- Numerous environmental analyses in California related to oil and gas development and oil transportation

Policy Issues related to oil and gas drilling, production and transportation projects to be addressed in the revised Code

- No Hydraulic Fracturing
- Financial responsibility
- Change of Ownership
- Bonding and Insurance
- Decommissioning
- Contamination cleanup
- Well completion techniques
- Monitoring and Enforcement
- Modifications/extensions
- Fees

City of Carson Oil Code Update

Operational Issues to be addressed related to oil and gas production and transportation projects

- Production facilities
- Transportation/Pipelines
 - Existing
 - New
 - Trucking facilities
- Tanks and Storage facilities
- NGL transportation
- Abandonment



The Oil Code will address development standards for the following issue areas:

- Safety/Risk of Upset
- Air Quality/Public Health/GHG
- Soils and Geological Resources
- Hydrology and Water Quality
- Water and Wastewater
- Noise and Vibration
- Transportation/Circulation
- Land Use

The Oil Code will address development standards for the following issue areas:

- Recreational Resources
- Cultural Resources
- Public Services/Utilities/Solid Waste
- Fire Protection/Emergency Services
- Energy Resources
- Aesthetics/Visual Resources

The final list of issue areas will be further refined after public comment.

Drilling Issues

- Noise
- Aesthetics
- Odors
- Risk
- Reinjection
- No Hydraulic Fracturing

Oil and gas development project must address some very unique operational aspects.

➤ Risk of Upset

- Well blow-outs
- Drilling fluid releases
- Hydrogen Sulfide
- Gas processing releases
- Oil spills (pipelines, tanks, truck loading)

Oil and gas development project must address some very unique operational aspects.

- Public Health (HRA)
 - Drilling/well workovers/re-drilling
 - Well heads
 - Toxic air emissions
 - Facility fugitive emissions
 - Soil contamination

Oil and gas development project must address some very unique operational aspects.

➤ **Odors**

- **Drilling/well workovers/re-drilling**
- **Tank vents**
- **Hydrogen Sulfide**
- **Muds handling**

Oil and gas development project must address some very unique operational aspects.

➤ Noise

- Drilling/well workovers/re-drilling
- Compressors
- Injection pumps
- Engines

Oil and gas development project must address some very unique operational aspects.

➤ Aesthetics

- Drill and workover rigs
- Type of production well heads
- Other Equipment

➤ Land Use

- Oil and gas development within an urbanized area
- Proximity to residential areas
- Proximity to recreational areas
- Proximity to sensitive receptors

Typical Development standards to be added into the revised Oil Code.

➤ Air Quality/Odors/Public Health

- Pressure sensors on oil tanks
- Special diesel engines and catalysts (Cleaner engines)
- Portable flares
- Odor suppressants
- Electric Rigs
- Control fugitive emissions
- No venting to atmosphere
- Setbacks



Typical Development standards to be added into the revised Oil Code.

➤ Noise/Vibration

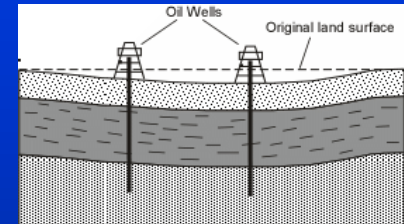
- Sound walls
- Soundproofing blankets on drawworks, rig floor, mud pumps, etc.
- Rub mats or wood on rig floor, catwalks, pipe racks
- Vibration dampeners
- Quiet mode drilling plans
- Low noise compressors



Typical Development standards to be added into the revised Oil Code.

➤ Geology

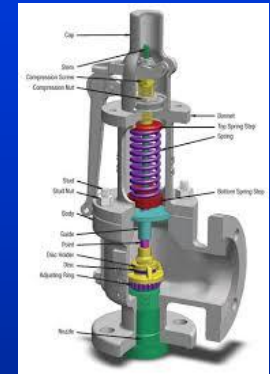
- Subsidence/uplift monitoring
- Seismicity Accelerometer
- Micro seismicity monitors
- Water Reinjection monitoring



Typical Development standards to be added into the revised Oil Code.

➤ Risk of Upset

- QRA
- Transportation routes
- Seismic bracing
- Excess flow valves
- Hydrogen Sulfide limits
- Equipment design and layout



Typical Development standards to be added into the revised Oil Code.

- Fire Protection
 - Equipment Spacing
 - Response capabilities
 - Fire code compliance
 - Setbacks



Typical Development standards to be added into the revised Oil Code.

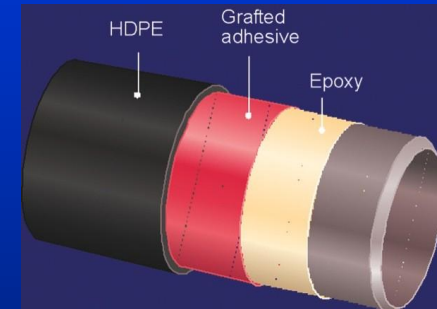
- Aesthetics
 - Landscaping
 - Architectural features.
 - Fences
 - Walls/Paint colors



Typical Development standards to be added into the revised Oil Code.

➤ Transportation

- Pipelines
- Minimize trucking
- Pipeline Types and Coating
- Pipeline routes away from sensitive receptors



Projected Schedule

- Workshops August-September
- Draft Code Update Late September
- Code Update Workshops October
- Planning Commission Hearings November
- City Council Hearings December

Questions

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