

# Sample NSPS/PSD/NSR/HAP Permitting Problem



# Example 1

- Magnus Metals wants to construct a facility that will manufacture steel-clad pipe in West Texas.
- The facility will include natural gas-fired boilers and smelt small lots of steel.



# Magnus Metals (cont'd)

- Emissions:

NOx	150 tpy
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PM2.5	20 tpy
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# Let's make it more complicated

- Still Magnus Metals, but now it wants to construct its facility in Harris County.
- You have also learned that Magnus Metals' process will use manganese as an additive in the steel.



# Emissions

- Same emissions:

NOx	150 tpy
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PM2.5	20 tpy
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Manganese	20 tpy
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# The final push

- To make life more difficult, Magnus Metals now wants to add the new pipe manufacturing line to its existing pipe mill in Houston.
- You have also discovered that the new line will use a lot of energy and generate significant carbon dioxide emissions (CO<sub>2</sub>).



# Emissions

NOx	150 tpy
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PM2.5	20 tpy
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Manganese	20 tpy
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[Looking ahead:

CO2	500,000 tpy]
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