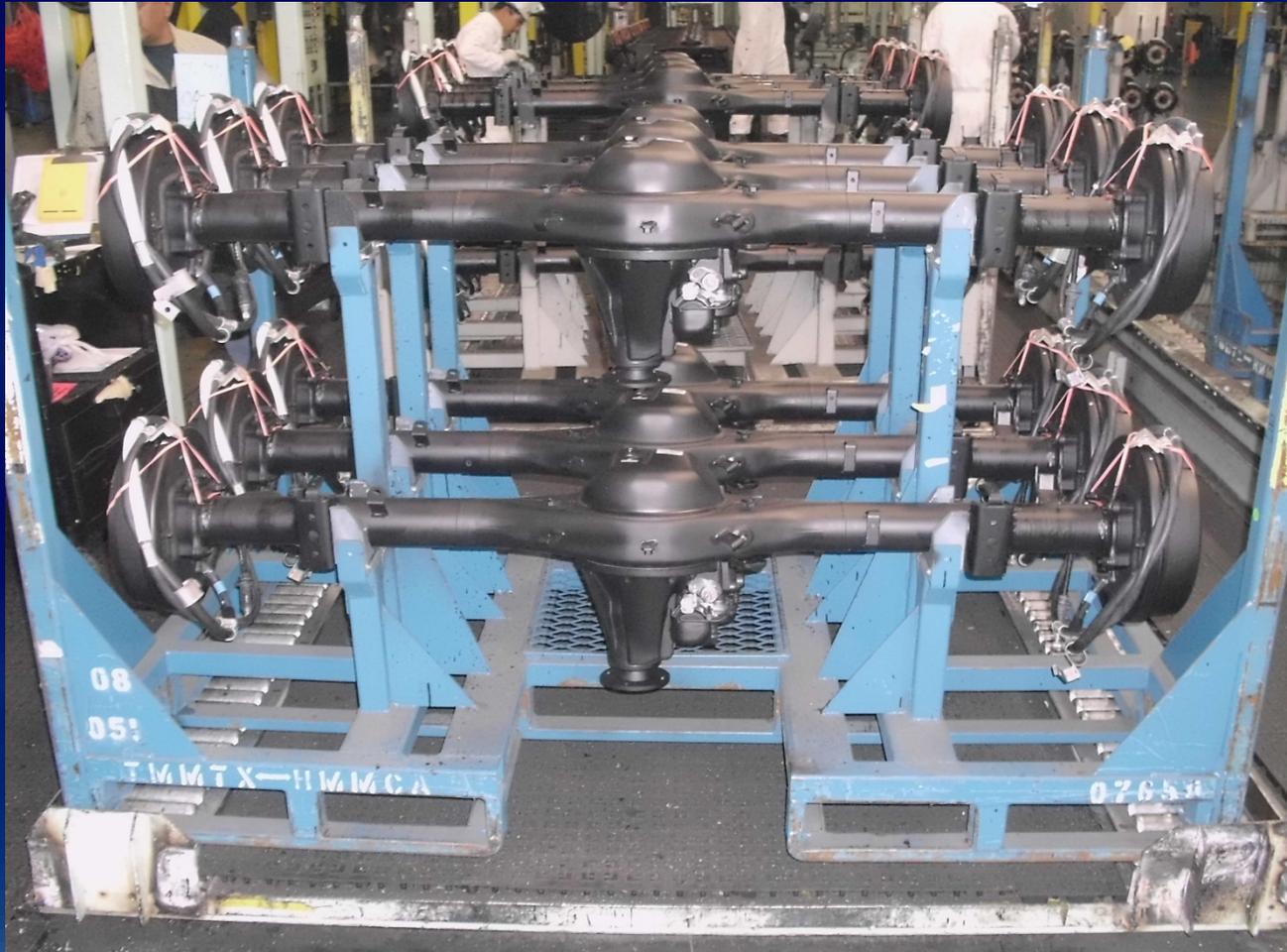


Reducing VOC Emissions from VOC-Containing Materials



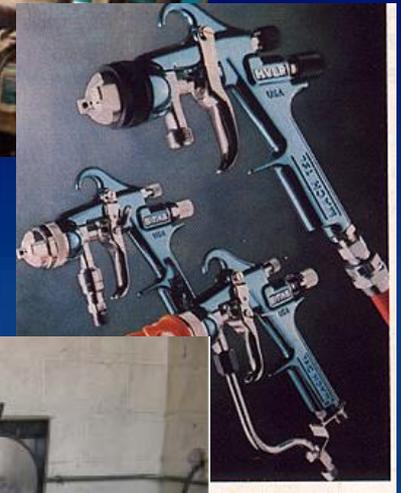
VOC-Containing Material Rules

- Dry Cleaning (Rule 1102)
- Boats (Rules 1106 & 1106.1)
- Metal (Rule 1107)
- Buildings (Rule 1113)
- Solvent Cleaning (Rules 1122, 1143, 1171)
- Aerospace (Rule 1124)
- Metal coil and containers (Rule 1125)
- Printing (Rules 1130 & 1130.1)
- Wood (Rule 1136)
- Paint thinners (Rule 1143)
- Metalworking fluids (Rule 1144)
- Plastic/Rubber/Glass (Rule 1145)
- Auto refinishing (Rule 1151)
- Polyester Resin (Rule 1162)
- Adhesives/Sealants (Rule 1168)

Consumer products (regulated by California Air Resources Board)

Regulatory Requirements

- Applicability and Purpose
- Definitions
- Coating VOC content
 - Prohibits use of high VOC coatings
- Transfer Efficiency
 - HVLP
- Solvent Use
 - <25 g/l



General VOC Content Limits

<u>Product Type</u>	<u>VOC Content(g/L)</u>
Adhesive	50 - 150
Architectural Coating	50 -100
Industrial Coating	100 - 420
Inks	225 - 300
Cleaning	25 – 100
Metalworking Fluids	50 - 75

- Limits designed to encourage the use of low and non-solvent technologies
 - Co-benefits of reducing toxicity (removing aromatics)

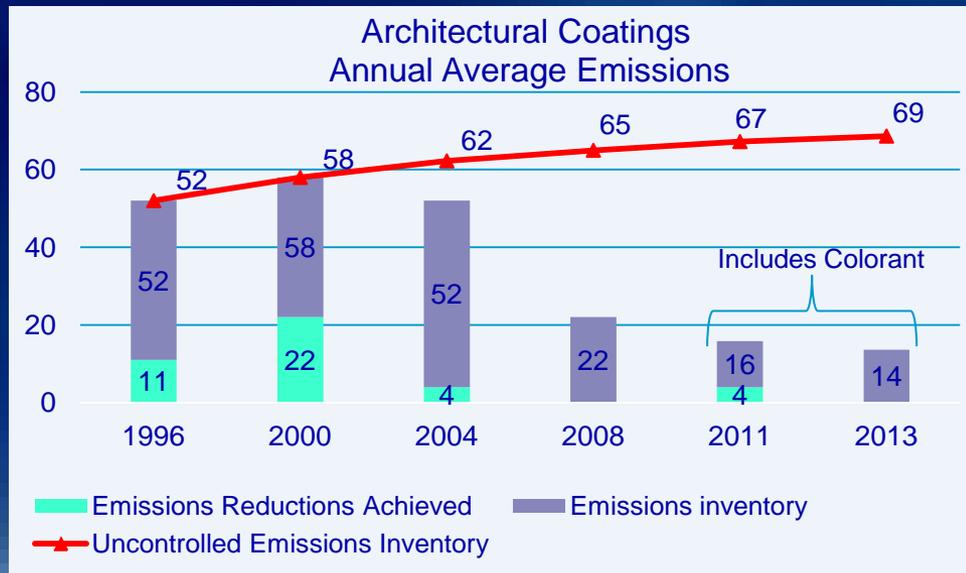
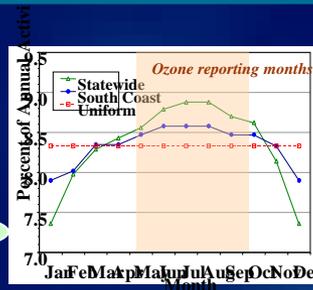
Architectural Coatings

Rule Limits: VOC 50 – 100 g/l
 Numerous Commercial Coatings: VOC < 10g/l
 Colorants Limit: VOC 50 g/l – First in U.S.

Solvent-based Alkyd,
 Epoxy, Urethanes

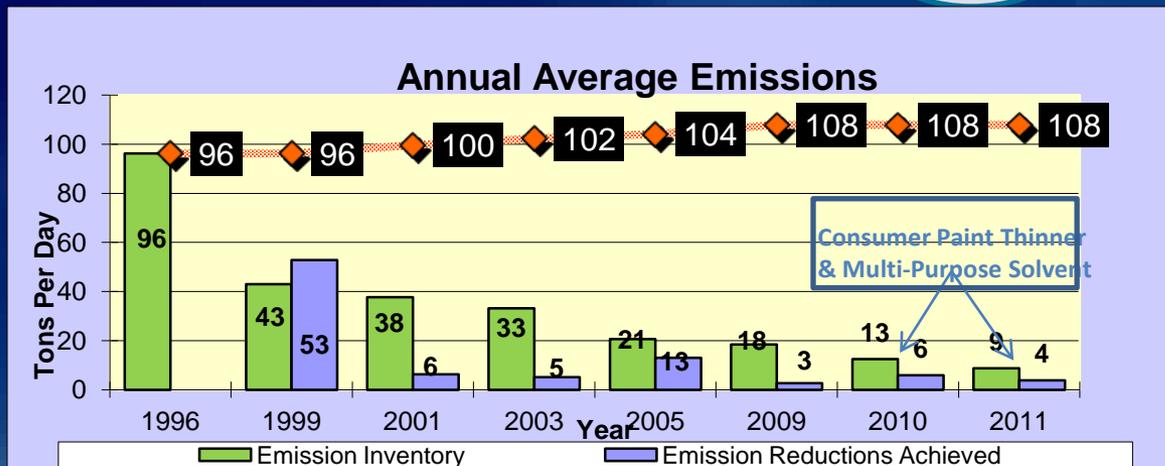
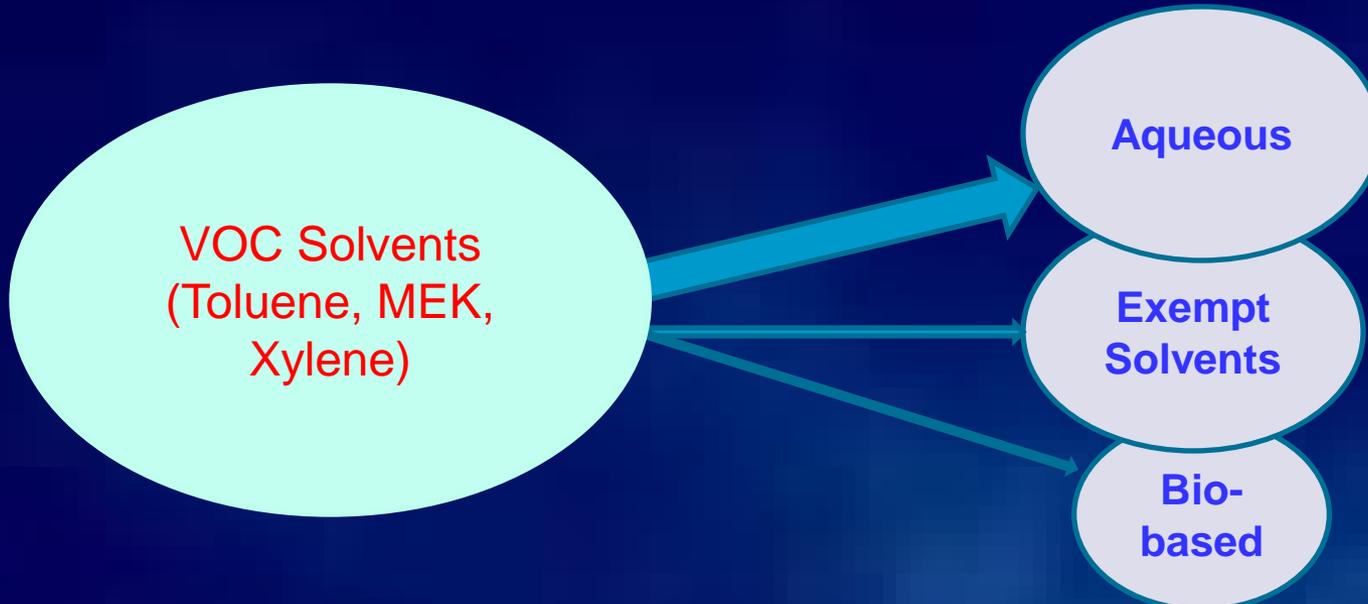
100% Solids
 Acrylics
 Alkyd Emulsions
 Waterborne Epoxy & Urethanes
 Exempt Solvent-based

Summer (Planning) Inventory about 30% higher



Solvent Usage Industrial & Consumer

VOC < 25 g/l



Future Considerations

Questions or Comments?

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