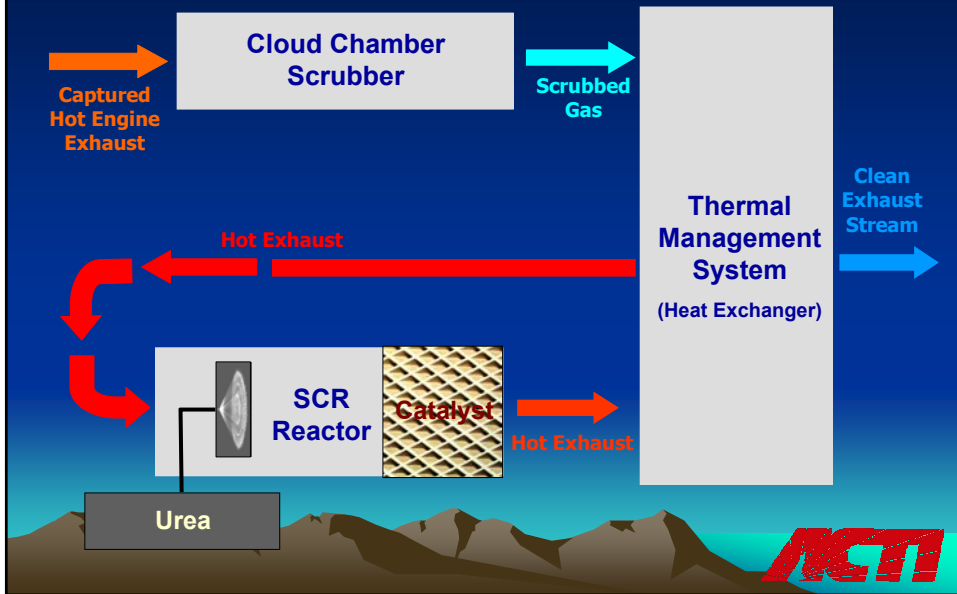
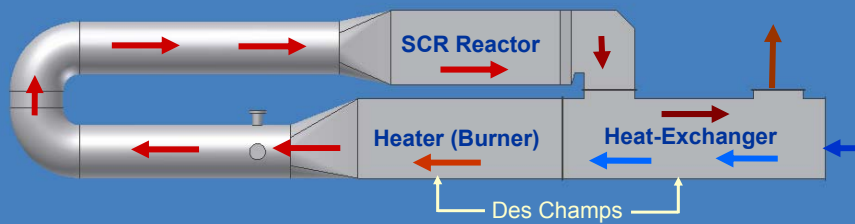


Thermal Management System

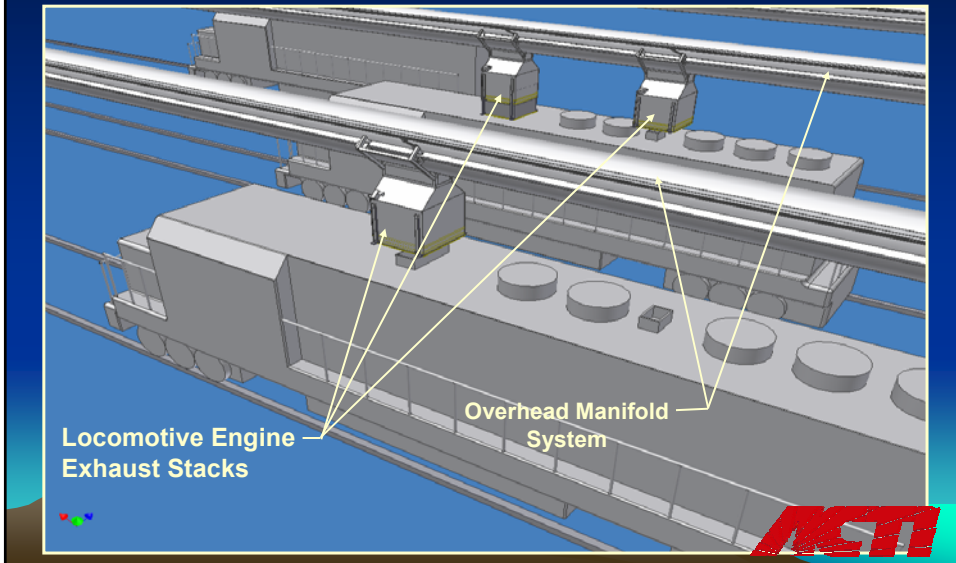


Selective Catalytic Reduction (SCR) Reactor & Heat Management System

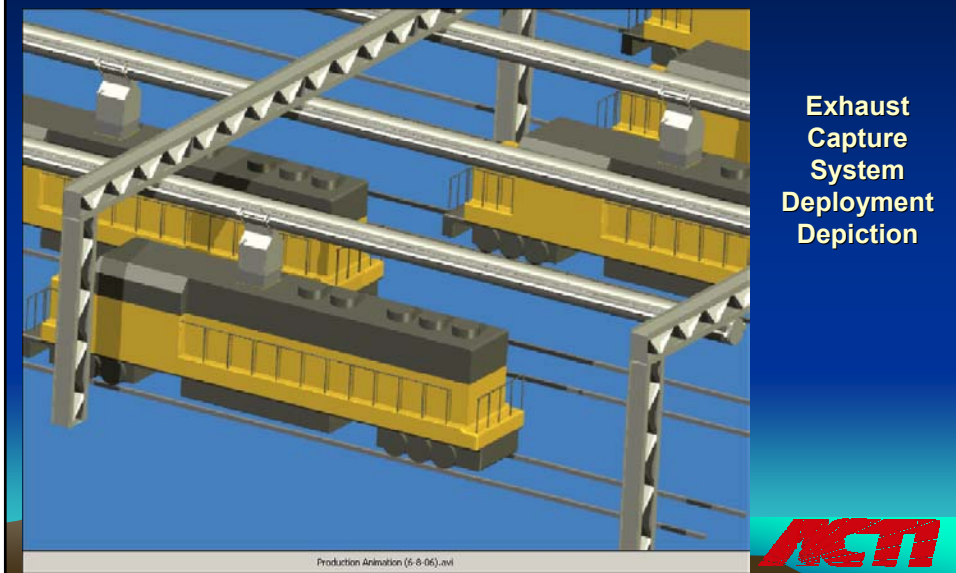
Depiction of the ALECS innovative and highly efficient Thermal Management System



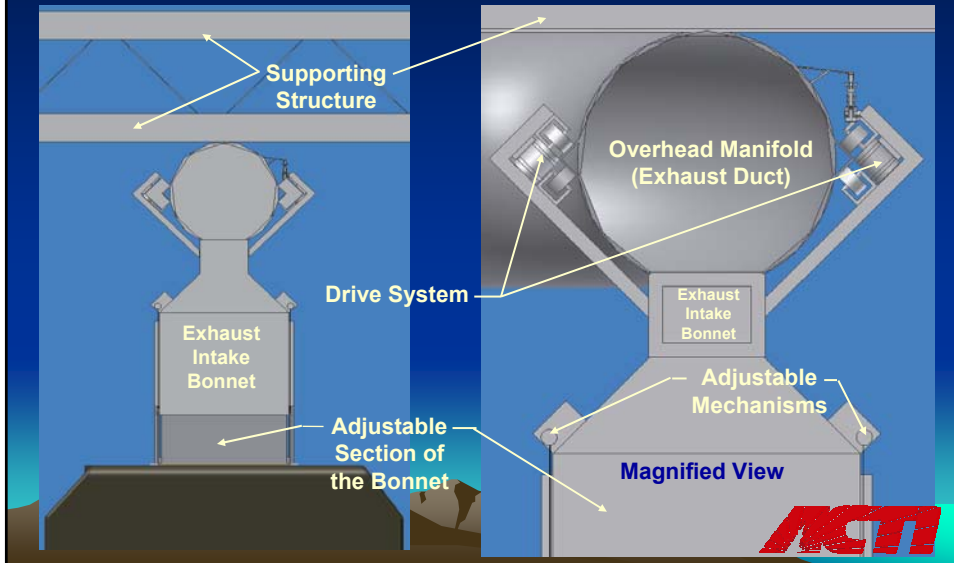
Exhaust Intake Bonnet - Docking



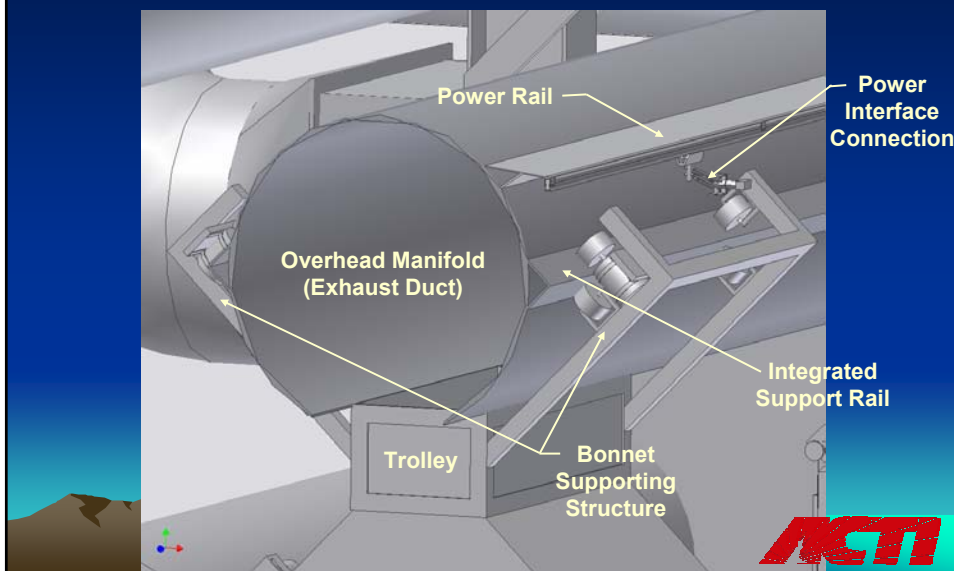
Production System (continued)



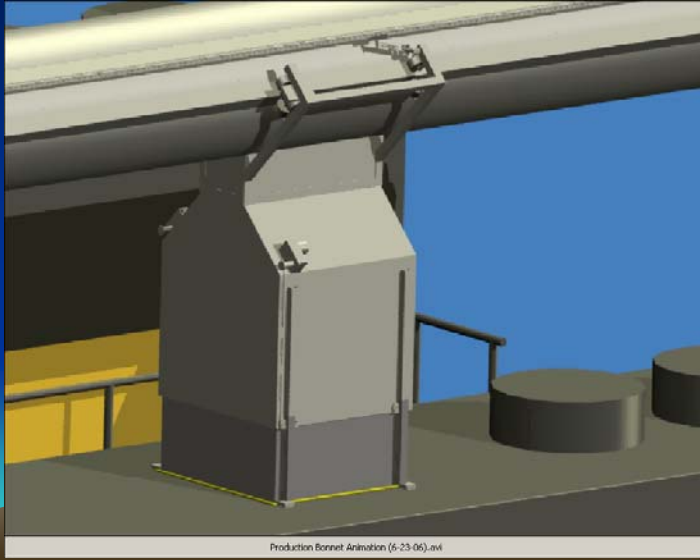
Production System (continued)



Production System (continued)



Production System (continued)

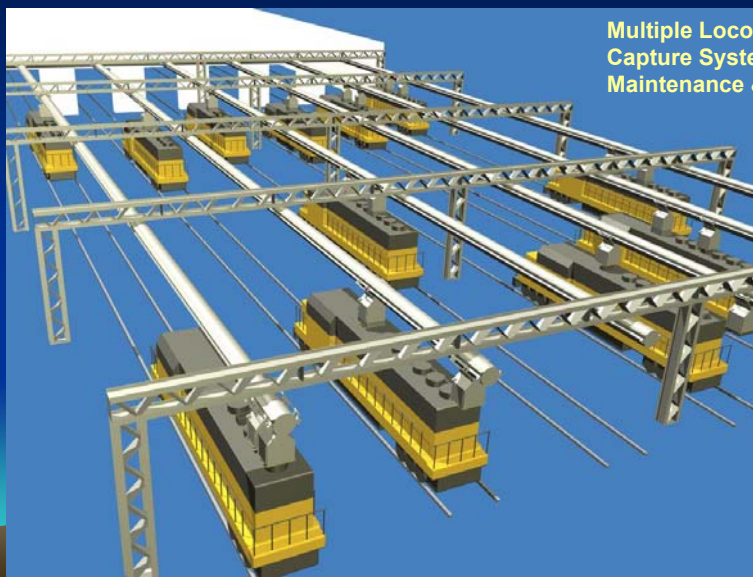


Exhaust Capture
Bonnet
Deployment
Depiction

Production Bonnet Animation (6-23-06).avi



Example Application



Multiple Locomotive Exhaust
Capture System – Railroad
Maintenance & Service Facility





Fuel Cell Option (Alternate Power Source)



Benefits

- **47% efficiency or greater**
- **Ultra-low emissions**
- **Heat as byproduct**
- **Flexibility in fuels**
- **Grid hook-up**

Summary

- ALECS would substantially reduce the harmful emissions released from locomotives within railroad facilities
- ALECS can treat locomotive exhaust while locomotives are moving within designated locations
- ALECS offers a cost-effective solution for the removal of harmful exhaust pollutants





Questions & Answers

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