





### Project Challenges – Construction





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### Project Challenges – Liquid

- ⌘ Higher handling temperature
- ⌘ Due to higher polymer, concern over liquid set-up
- ⌘ This limited storage time (absolutely no more than 7 days)
- ⌘ Potential weather impacts on storage time
- ⌘ Ergon in Memphis – 3 ½ - 4 hours shipping time
- ⌘ Produced in minimum batch sizes (4 loads minimum order)
- ⌘ Dunn Construction producing the 80# layer on the SB side at the same time
- ⌘ Testing requirements required a 48 hour testing period after liquid was produced
  - Further limited storage time to 5 days absolute maximum
- ⌘ 400 tons per shift x 6.05% AC = 24.2 tons of liquid (1 load)
  - 4 load order covers 4 shifts --- 5 day maximum storage time!
  - 1 day margin of error




### Project Challenges - Plant

- ⌘ Not getting stuck with 76-22E in the tanks!
- ⌘ Constant circulation of liquid
- ⌘ Constant monitoring
  - Heat
  - AC Pump
  - In-line strainer
- ⌘ Mix scheduling, weather and ordering loads at the right time



### Project Challenges

- ⌘ Primary concerns:
  - Being able to cover the 80# layer within 24 hours on the interstate
  - Liquid and mix potential for setting up
- ⌘ Keys to overcoming challenges:
  - Preplanning
    - ‡ Learning from others' experiences
    - ‡ Discussions with suppliers
  - Planning
  - Constant Communication
  - Constant Monitoring
    - ‡ Plant components
    - ‡ Weather



### Questions or Comments?

END OF PRESENTATION

