

# ENGINEERING COVID LEARNING

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# Areas of Focus

- Project Management Tools
- Remote Commissioning of Equipment
- Stakeholder Involvement in Capital/Engineering Projects
- Improved Development of Capital Projects
- Current/Future Challenges

# Project Management Tools

- Microsoft Teams Usage
  - Increased Contractor Involvement
  - Greater Participation in Preinstallation Meetings
  - Real Time Information Sharing
- Video Improvements
  - Facetime/Skype
  - Augmented Reality
    - Remote Troubleshooting
  - Video File Sharing
    - Viewing Production Issues
- Time Management Skills
  - Greater Time Spent on Scope
  - Better Work/Life Balance

# Remote Commissioning of Equipment

- Problem – Commissioners Onsite
  - COVID Travel Restrictions
    - Europe, Canada, Asia, etc.
  - Working in Close Proximity, Social Distancing Not Possible
- Safety
  - Ensuring Proper Guarding
  - Controlling Area Access
- Use of Video Equipment
  - Cameras
  - IPADs
- Remote Monitoring
  - WIFI Strength
  - Supplier Remote Access

# Stakeholder Involvement in Capital/Engineering Projects

- Increased Participation
  - Plant Management Involved in All Planning Meetings
  - Diverse Idea Creation
    - Production, maintenance, sales involvement
- Maintenance Taking a Lead Role
  - Travel Restrictions Limit Project Engineer Involvement
    - Last minute COVID testing issues, state to state travel restrictions
  - Plant Ownership through Maintenance Leadership
    - Maintenance Champion
  - Smaller Projects Receive Greater Attention
    - Accountability at the local level
- Training
  - Improvement of Maintenance Skillsets

# Improved Development of Capital Projects

- Focus on Customer Needs
  - Quick Reaction to Changing Customer Demands
- Remote Project Development
  - Work from Home
    - More time spent on single tasks
    - Greater focus to less stress (travel, etc.)
  - Limited Interruptions
    - At a plant, a project engineer can be pulled in many directions
  - No Travel Disruptions
- Greater Development Time
  - Drawings, Schedules, Procurement Planning, etc.
  - Plant Management Involvement
    - Microsoft Teams meetings

# Current/Future Challenges

- Material Availability
  - Equipment Lead Times
  - Steel
- Rising Material Costs
  - Raw Materials
    - Steel, Copper, Aluminum, Wood
- Technician Availability
  - Installation Support
  - Equipment Recovery (Downtime)
- Plant Ventilation Improvements
  - Number of Air Changes per Hour
  - Standard Design Criteria