

# MPL's SCADA Analyst Training Program

API Cybernetics Symposium 2012



**Marathon  
Pipe Line LLC**



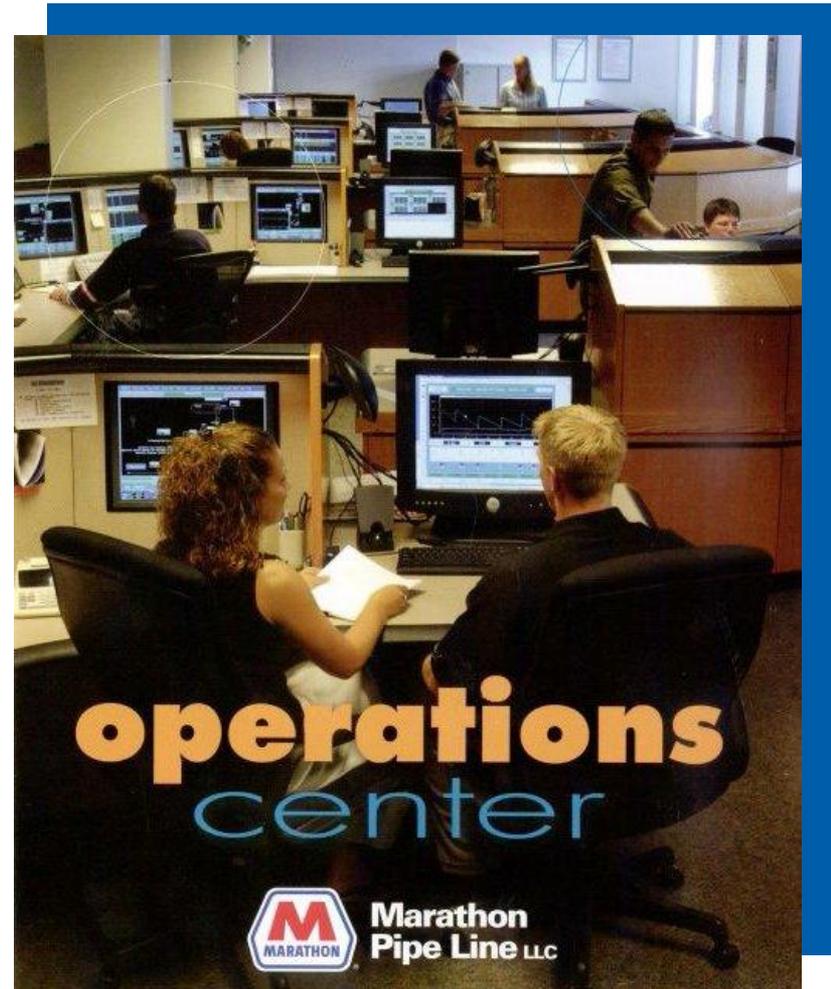
# Background

## ■ Operations Center

- Findlay, OH
- 8 Consoles
- 55 Systems
- 14 States
- ~5,800 Miles of Pipe
- ~2.6 Million BPD (Liquids)

## ■ Staff

- 3(5) SCADA Analysts
- 1(2) CPM Engineers



# Four-Pronged Approach



# Mentoring

- Veteran SCADA Analyst assigned to each new Analyst
- Mentor
  - Responsible for their training/development
  - Project work and reoccurring tasks
  - Determines readiness for assignments
  - Help supervisor assess progress
  - Goals
    - Assimilate to culture
    - Complete OQ process
    - Productive

# Operator Qualification

- DOT OQ Rule (CFR Part 192/195)
  - “If the worker touches any part of the pipeline system in performing work...”
  - All covered tasks must be performed by a “qualified” person
  - To become “qualified” the regulation requires individuals to be “evaluated”
  - Re-evaluation every 3 years

# Operator Qualification

## ■ 16 OQ Covered Tasks

- OQTOCT105 Perform fail-over
- OQTOCT120 Perform failover of XIS
- OQTOCT122 Add a database routine
- OQTOCT123 Add a provmtr database routine
- OQTOCT124 Add a rate database record
- OQTOCT125 Add/edit SPT site configuration
- OQTELE287 Add/modify a group for status point
- OQTELE290 Add/modify a pumping unit
- OQTELE285 Add/modify a status point
- OQTELE288 Add/modify a tank
- OQTELE286 Add/modify an analog point
- OQTELE289 Add/modify a remote for PLC
- OQTELE291 Add/modify a meter
- OQTELE292 Add/modify a prover
- OQTELE293 Add/modify a jsh record
- OQTELE298 Add/modify a commline

# Operator Qualification

## ■ MPL's implementation

- Administered by HRT&D
- Accumulative process – employee can perform task as soon as they are qualified
- Evaluation
  - Method – Written / Oral / Performance / Simulation
  - Evaluators – “qualified” evaluator + veteran analyst (not mentor)
- Time frame
  - Usually takes ~1 year to become qualified on all tasks

# On-The-Job Training

- Bulk of their training
  - Learn by doing
    - On-call
    - Projects
    - Abnormal Events
  - Knowledge sharing
    - Desk Manuals
    - Working with experienced analysts
    - Working with vendors & contractors

# Outside Training

- Supplements other training
  - Hardware/Software
  - Communications
  - Networking / Cybersecurity
  - Soft skills
  - Business tools
  - Industry Forums