Proactive OHL Asset Management

- Develop and document proactive strategies
  - Reactive strategies no longer adequate
  - Identify and leverage what is known
  - Identify and pursue what is not known
  - Entire industry facing same challenge

- Collaborate with external experts
  - IEEE/Cigre/CEA – Standards/Guides/Surveys
  - EPRI/NETRAC/Kinetrics

Recommendations – Future State

- Four Major Recommendations
  - Complete Active Replacement Programs (R1, R2, R3)
  - Initiate Four More Refurbishment Programs (R4, R5, R6, R7)

Next Steps – Report Journey

- Include in TS Asset Plan for FY09/FY10
- Asset Plan for FY09/FY10 Organized As:

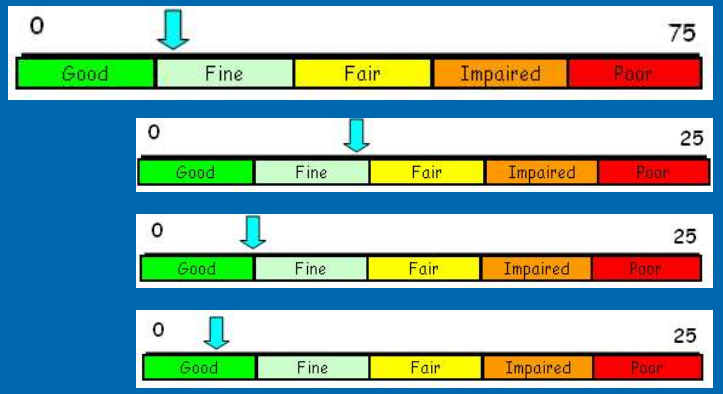
  - Replace/Refurbish: TE/TO/TF

    Present Programs
    - Spacers
    - Wood Poles
    - Airway Lights

    New FY09 Programs
    - Connectors
    - Insulators
    - Dampers
    - Fiber Abrasion

Fiber Optic Cables (Passive)

- Health – Fine … Risk - Mild

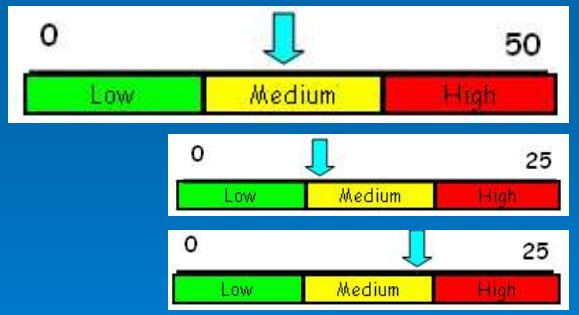


Component Health – Fine (17/75)

Physical Condition (9)

Obsolescence (5)

Remaining Life (3)



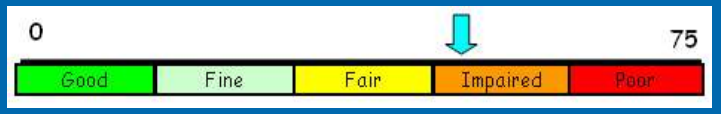
Risk to Operating System – Medium (23/50)

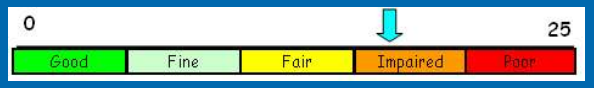
Automatic Outages (9)

Availability (14)

Connectors (Active)

- Health – Impaired … Risk - High



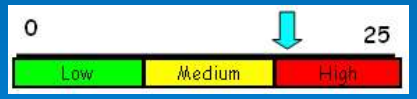


Component Health – Impaired (47/75)

Physical Condition (18)

Obsolescence (17)

Remaining Life (12)



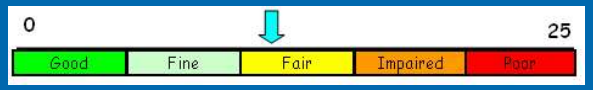
Risk to Operating System – High (37/50)

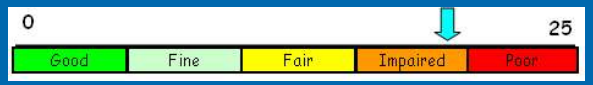
Automatic Outages (19)

Availability (18)

Insulators (Active)

- Health – Impaired … Risk - High



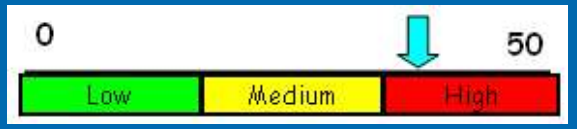


Component Health – Impaired (49/75)

Physical Condition (19)

Obsolescence (12)

Remaining Life (18)



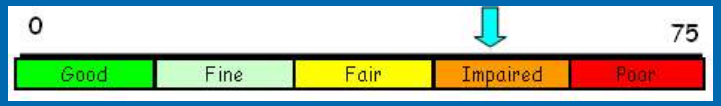
Risk to Operating System – High (37/50)

Automatic Outages (18)

Availability (19)

Dampers (Active)

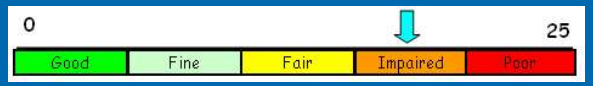
- Health – Impaired … Risk - Low



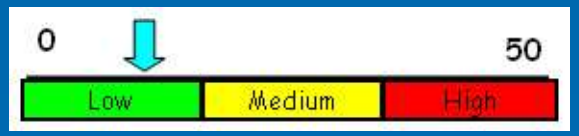
Component Health – Impaired (51/75)

Physical Condition (18)

Obsolescence (16)



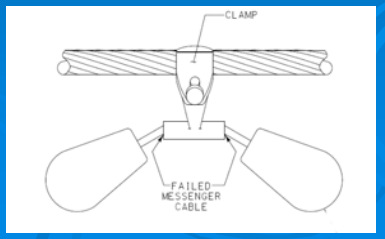
Remaining Life (17)

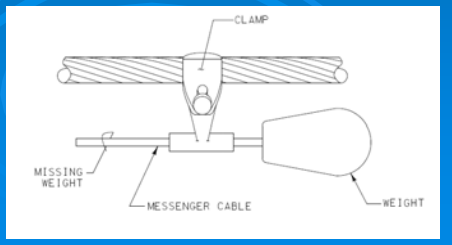


Risk to Operating System – Low (11/50)

Automatic Outages (3)

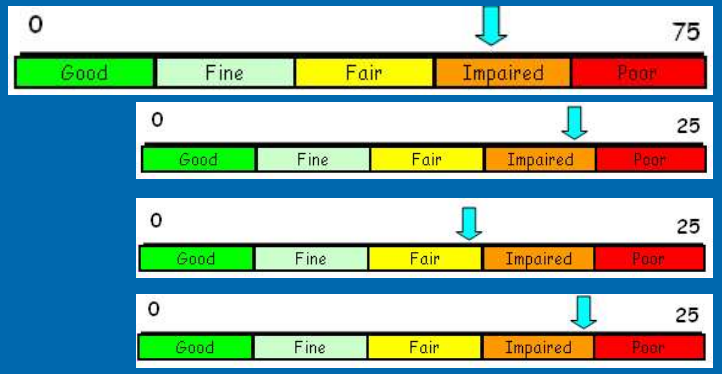
Availability (8)





Wood Poles (Active)

- Health – Impaired … Risk - High

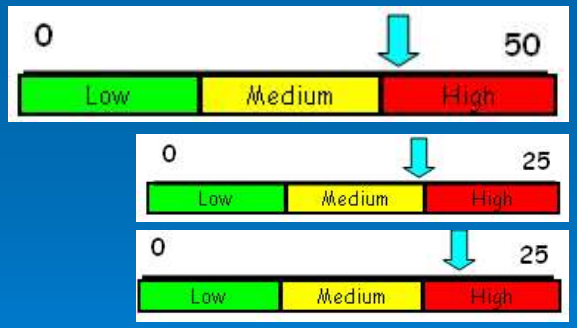


Component Health – Impaired (51/75)

Physical Condition (18)

Obsolescence (14)

Remaining Life (19)



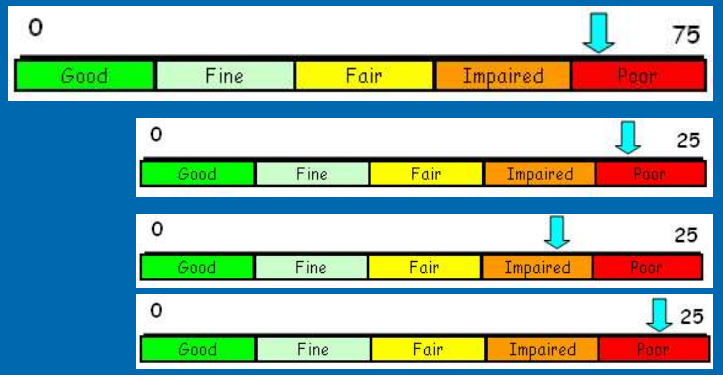
Risk to Operating System – High (35/50)

Automatic Outages (16)

Availability (19)

Spacers (Active)

- Health – Poor … Risk - High

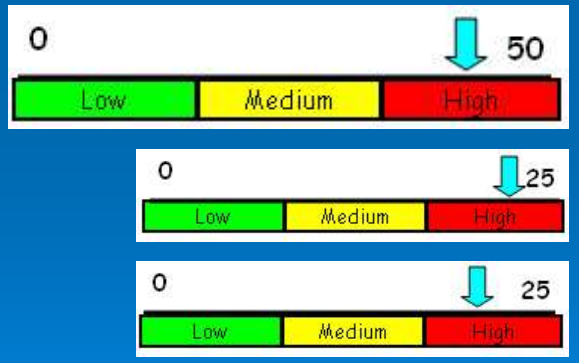


Component Health – Poor (63/75)

Physical Condition (22)

Obsolescence (18)

Remaining Life (23)



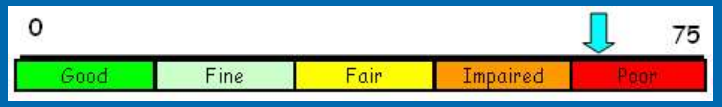
Risk to Operating System – High (42/50)

Automatic Outages (22)

Availability (20)

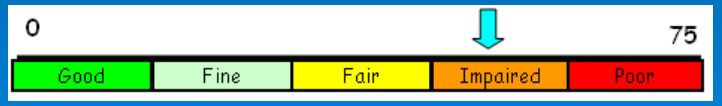
Airway Warning (Active)

- Risk - Regulatory
- Airway Lights: Health – Poor



Component Health – Poor

- Marking Spheres: Health - Impaired



Component Health – Impaired

Asset Assessment Processes

- Fully characterize asset in TLDD – On Going
  - Data is inadequate, unreliable, or missing
  - Proactive management of infrastructure
- Enhance TLM Apps – TAS Effort
  - Data is inadequate, unreliable, or missing
  - Attribute all major components
  - Develop business rules and data stewardship
  - Proactive assessment of asset condition
- Assessment and Measurement Metrics - TAS
  - PLGs for what and when to assess
  - WSG for how to assess and retain data