



DayCor® ROM

Corona Inspection Airborne Solution



Makes **UV**isible

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DayCor[®] ROM

Altitude:

200-400 feet above ground
50-150 feet away from line
depends on line voltage



Spe

***More than 150 miles of
transmission lines per day***

depends on span distance

Operative:

All-seasons ready to fly
superior weather versatility

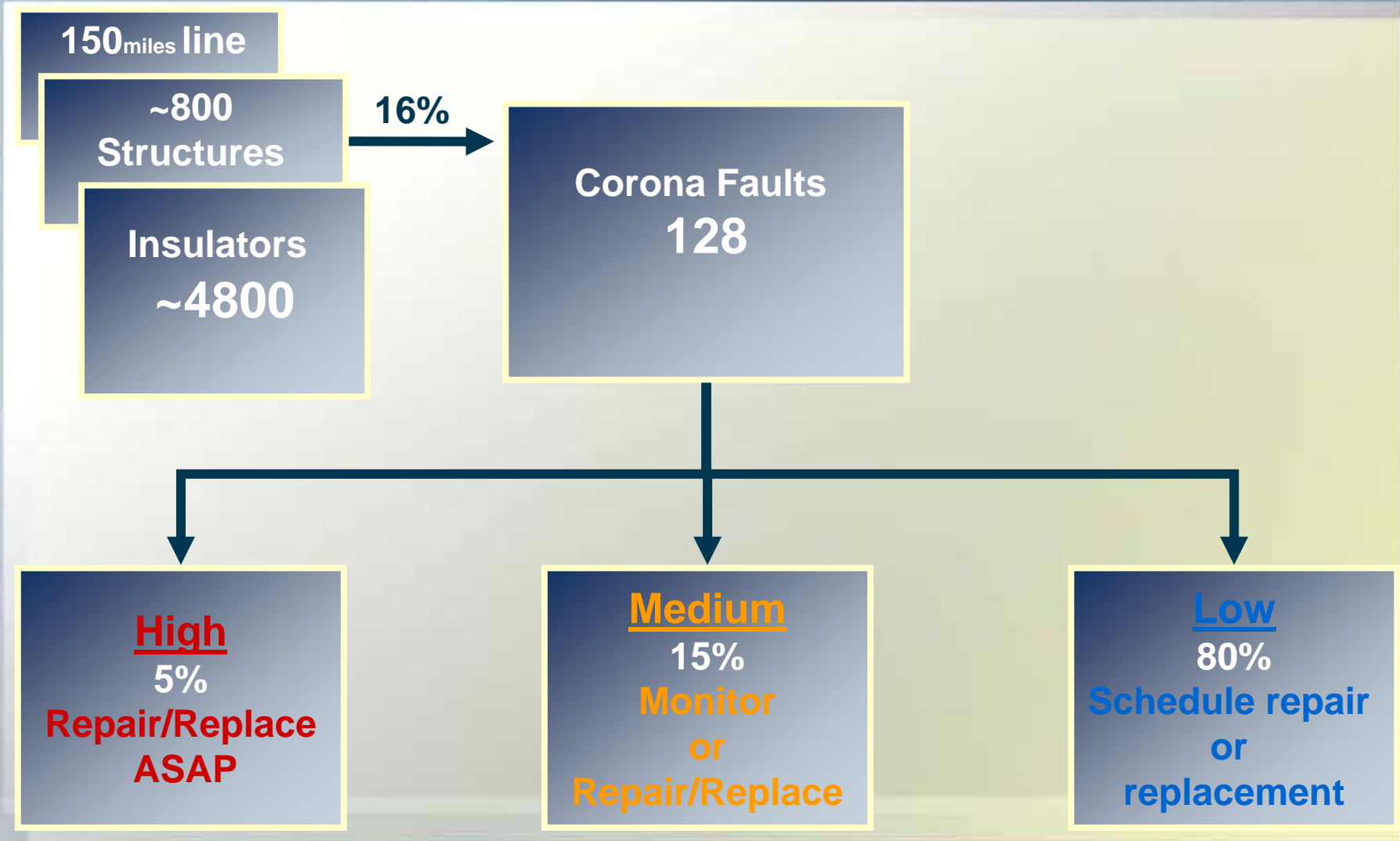


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Faults probability statistics



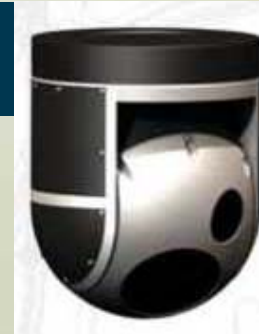
DayCor® Rom – Multi Spectral



Option I

2 sensors payload

possible combinations:



DayCor®
Bi-Spectral
UV-Visible

→ + IR

or

→ + Stills

or

→ + Broadcast

DayCor® Rom – Multi Spectral



Option II

3 sensors payload

possible combinations:



DayCor®
Bi-Spectral
UV-Visible

→ + IR + Stills

or

→ + IR + Broadcast



Multi spectral inspection

Toggle between Corona/Visible





Multi spectral inspection

Toggle between Corona/IR



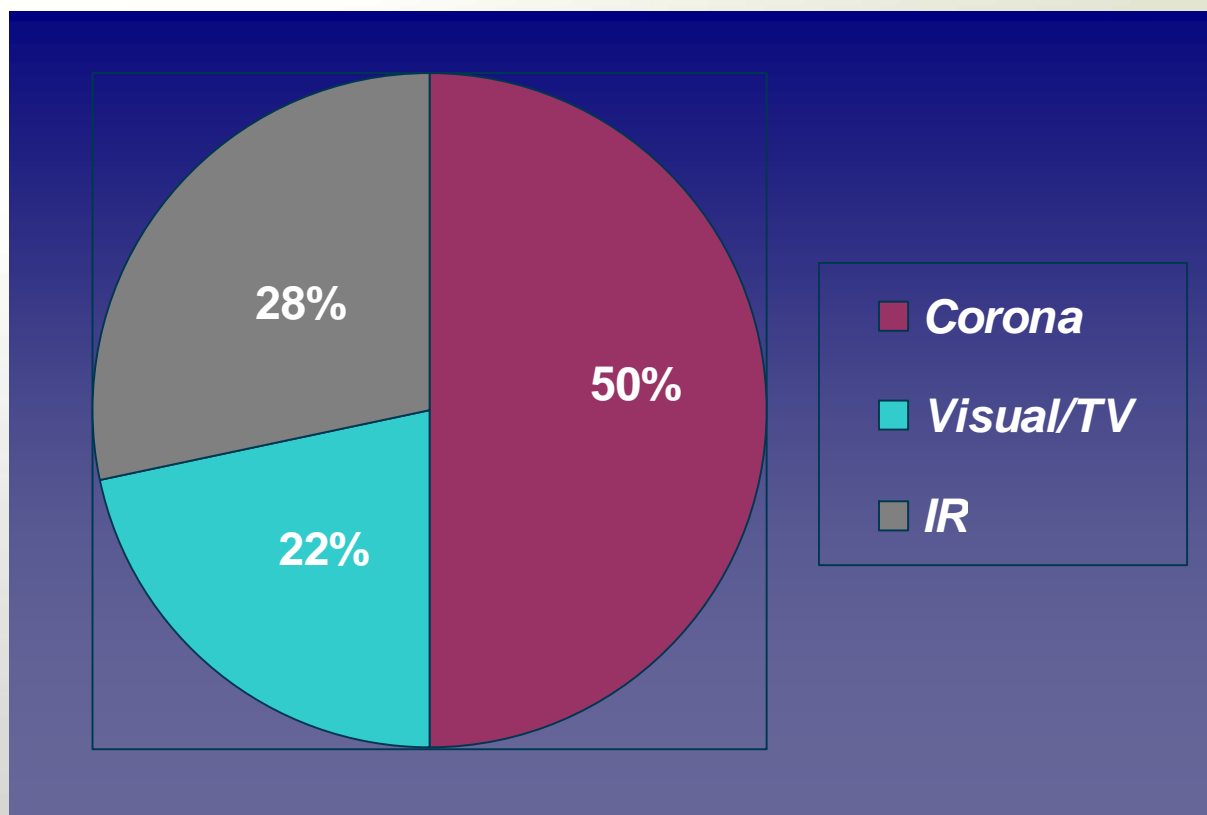
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Multi spectral inspection

Percentage Of Problems Found By Cameras





Professional & accurate

Attribute	Benefit
<ul style="list-style-type: none">• High sensitivity of 3×10^{-18} watt/cm²	<ul style="list-style-type: none">• High speed
<ul style="list-style-type: none">• Corona detection of 1.5pC	<ul style="list-style-type: none">• Long distance and safe detection
<ul style="list-style-type: none">• Overlay accuracy of less than 1 miliradian	<ul style="list-style-type: none">• Accurate pinpointing of corona sources









Professional & accurate

Gyro stabilized gimbaled payload

- Stabilization of 100 micro radian
- GPS based
- High backlit screens at the observers station
- Flight without topographic limitation

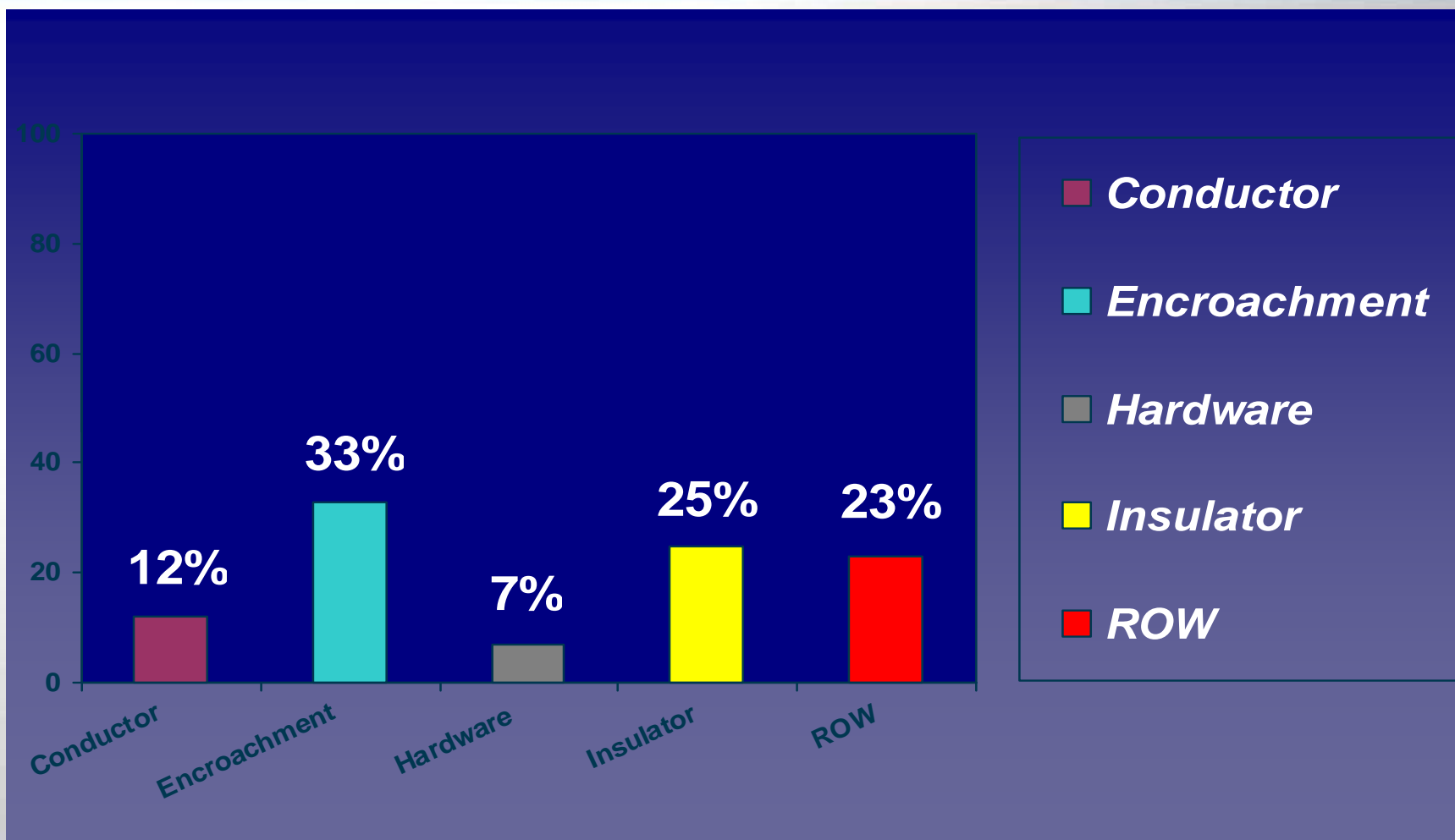


Types of detected faults

Component	Problem	
Corona ring	Missing/faulty installations	
Porcelain Insulators	Punctured / contaminated / broken	
Polymer insulator	End- fitting / Split / Punctured / Surface tracking	
Conductor	Broken strands / "Bird-cage" / Nicked / Abandoned / Flashed	
Spacers	Broken/loosen	
Misc	Poor grounding of structures	



Types of detected faults





Conductors



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Grounding structure



Case study - Outage

❖ Problem

Outages cost

\$ 350,000



❖ Monitoring

Total repair cost

\$ 9,000

ed nothing

❖ Findings

No More Outages

❖ Result



Conclusion



DayCor[®]Rom inspection is instrumental to comprehensive survey



RAIL



RANGER



ROM



CLASSIC



SUPERB



Case study - Contamination

9 hours out of service

\$ 400,000

hours

Monitoring

1 hour

DayCor® Rom

\$ 850

inspection cost

monitoring activity

No More Outages

Results



DayCor®Rom inspection

500KV

CORONA FLIGHT

SEPT 30 2004



Conclusion



**Use the DayCor®
to determine washing effectiveness**



RAIL



RANGER



ROM



CLASSIC



SUPERB

Conclusion



DayCor[®] products are Non Destructive Testing (NDT) equipment with proven

- ❖ Performance
- ❖ Cost effectiveness

An indispensable preventive and predictive maintenance tool



Thank You



RAIL



RANGER



ROM



CLASSIC



SUPERB