



**Sahara**  
GROUP

# ***Going Beyond the check list***

*inspired by Susan Gordon research*



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# ***What is On Ground Refueling Tarmac medical check up***



# ***Fuel operators the doctors on the tarmac***







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# ***On-ground Service 25 minutes of “concerto”***





**25/30min Turn Around Operation**



# ***Jet A1 is Hazardous:***



**Highly  
Flammable**



**Aspiration  
Hazard**



**Skin  
Irritation**



**Chronic Aquatic  
Toxicity**



# ***SO Aviation manages:***





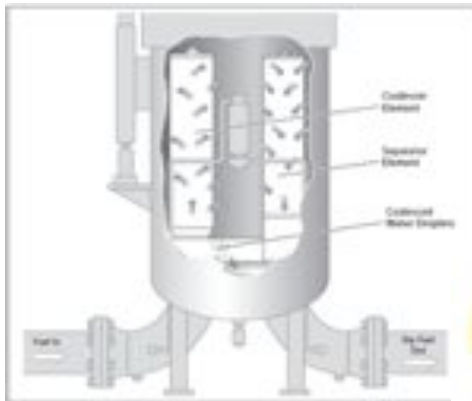


# Product Health

## The checklist

### Water Control

- **Related Risk :** Water can freeze, blocking fuel inlet pipes
- **Risk Management:** Water filtration process and shell water detector







# Product Health

## The checklist

**Conductivity.** Static electrical charge can be generated when dissimilar surfaces move across each other, for example, when fuel moves through a pipe, hose, valve, or fine filter.

- **Related Risk:** And can cause explosions triggered by sparkle.

- **Risk Management:** Bonding and grounding (or earthing), pumping rate limits, and time for charge dissipation (relaxation time), before the fuel is exposed to air. And regular control of conductivity.



# ***Employees Health***

## ***The check list***

### ***International standards: Checklists***

- **Shifts**
- **Continuous training**
- **PPE:**
  1. **Emergency eye wash**
  2. **Boots and Gloves**
  3. **Glasses**
  4. **Ear protection**
- **Radio Systems**
- **Alcohol and drug testing**





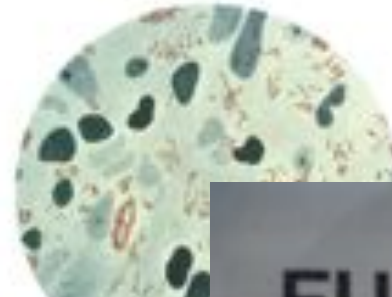
# ***So Aviation Goes Beyond the Checklist***



# Customers Health Beyond the Checklist

## Control of micro-bacteria

- *Risk Related : microbes can sometimes develop a dirty slime at the fuel/water interface in fuel tanks. Apart from being unsightly these can block tank strainers and aircraft fuel filters.*
- *Risk Management:  
FuelStat test – Bacteria and yeast test*







# *Customers Health Beyond the Checklist*

## *Mobile Fire System*





# Customers Health Beyond the Checklist

## *PecoFacet Jetgard:*

- *Continuous Online Sample Testing*
- *Particles, Water and Filter Performance Test*
- *Filter Pressure Monitoring*
- *Data transmission*
- *Automatic Shut down*





# Automated System

- *Portable version*
- *Automatic meters*
- *Automatic gauging*
- *Automatic PTO*





# Customers Health Beyond the Checklist

*Real time system:*

- *GPR System*
- *Provide real stock level*
- *Electronic invoicing*
- *Manpower schedule  
& equipment utilization*







# ***Going beyond the check list Psychological Safety***

*Leadership & Coordination  
Psychological Safety*

*Communication &  
Information Sharing*

*Reducing human error via  
technology support*

*Training*

*Teamwork*

*means*

***upgrading  
aviation  
standards  
creating  
transferable  
knowledge***



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***Thank You***