

Breakout B - Williams:
Equipment, Operations, Tactics

Slide 1:

Equipment maintenance program – preventative/routine

- Life cycle replacement cycle [Was there a desire for replacing equipment based on life cycle costs vs. low initial cost?]
- Does a state have a list of points for achieving a good preventative maintenance program?
- Best practices for preventative maintenance?

Corrosion: electric / electronic

Slide 2:

2) Equipment reliable ... calibration

- Ground speed on trucks – yes
- Calibrate –
- Verified?

Consistent application

Trust – believe in rates

Training - operations (KS)

Low speed stall at low speeds

Slide 3:

Auger vs. Chain spreaders (in slip-in spreaders)

[Was the discussion about auger spreaders based on tailgate-style spreaders of the newer European style?]

Should we return to old way – Ground-driven spreaders?

- 1) Right rate
- 2) Hit target

Salt, Brine, Slurry

[Not sure the context for the different salt types. Can you elaborate?]

Slide 4:

Grind salt on-board vs. fine salt

Will Clear Roads update our calibration guidelines?

Slide 5:

Equipment C Levels of service / notes (1 of 2)

	Time to recover or regain time	Overtime Yes/No
1. Bare – line to line		
2. Wheel tracks		
....		
5.		

Priority by ADT
Cycle time (circuit time)
Inputs -> outputs
Officially <-> unofficially

Slide 6:

Equipment C Levels of service / notes (2 of 2)

Communication

- Explaining cycle time rates to the public
- Education
- Internal -> external (politicians, commissioners, public, elected officials)
- “Operating efficiently”
- “Trust issue”

Be seen working AUL/wed site [don't know this abbreviation?]

Issue: Right Equipment, Calibration

Product:

Buying the right equipment

Buying what the vendor sells

Spinners vs. chutes

Utilizing existing training & calibration guidelines

Finer grained salt specification

Effort:

Writing specifications for what is appropriate

The directive to calibrate consistent application

Verification of calibration

Issue: Equipment maintenance

Product:

Best practices for preventative maintenance

Life cycle replacement

Corrosion specifications

New computer systems

Effort:

Directives from management

Good guidelines

Nelson closeout notes:

Calibration-

- Ground speed and vendors
- Not necessarily research

- Matter of trying things like zero-velocity spreaders
- Equipment ideas that are home grown
- Calibration training videos on YouTube
- Update products out there
- Calibration verification and accountability

Operators need to trust and believe that the application will work

Equipment preventative maintenance

- Look at life cycle costs
- Preventative maintenance will allow the equipment to last
- Upper management must give the operators time to have preventative maintenance done.
- Corrosion best practices – Clear Roads can promote this.

Telematics -> connected vehicle -> vehicle to infrastructure

Level of service defined

- How are levels of service defined?
 - Internal, consistent
 - For elected officials, how to message levels of service so that let us do our job?
 - For the public, how to communicate levels of service such that they can be grasped by the public.
- Develop a message template that can be followed.