Winter Maintenance
Snow and Ice Control
– Module 5 –

POST STORM ACTIVITIES

PRESENTED BY:
DELaware T² Center
In this module:
- Push back shoulders
- Clear drainage ways
- Refreezing
- Maintain and clean equipment
- Restoring safety features and sight distances
- Removal of snow
- Asset inventory
- Interim pavement repairs
- Assess performance and debrief
Post Storm Activities

- You fought the storm
- Everyone’s back at work, the mall, the PTA meeting, and football practice
- The crews have gone home to rest (and clean out their own driveways)
- Tomorrow, it’s time to get ready for the next storm – your post storm tasks
Get Ahead of the Public

- Press release, letter to the editor, appearance at a council meeting, etc.
- Thank the public for their cooperation during the storm
- Forget about the ones who didn’t cooperate
  - Release your negative ions
  - This is positive time
- Tell them how much it helped your operation
- It steals thunder from the cranky ones
- It could make them more cooperative next time
This is the stuff beyond passable roads and achieving Levels of Service

- Recognize the difference between what has to be done immediately versus what can wait...while you rest a bit
- Establish your LOSs during the storm
- Make roads passable and safe for a prudent driver
- Then rest
- The stuff we’ll talk about now can wait a day or so
- Usually
- But not much longer
Cleanup

- Push back shoulders
Cleanup

- Cleanup parking lots
Cleanup

- Clear drainage ways
- Expose hydrants
Cleanup

- Clear curb ramps
- Deice sidewalks
- Watch for refreezing
Cleanup

- Maintain equipment
- Equipment repairs
- Check cutting edges
- Wash equipment
- Clean spreaders
Post Storm Activities

- Cleaning/repairing equipment is important after each storm
  - Get the salt out of the nooks and crannies
  - Verify free movement of all parts
  - Repair worn or damaged parts
  - Check all safety lights and equipment
Post Storm Activities

Video

Iowa Department of Transportation

Winter Maintenance Training – Delaware T* Center
Cleanup

- Replenish chemicals/abrasives

Photo: Allie Gerlach
Cleanup

- Melt water control

Photo: William Spaetzela

Photo: Geoff LMV
Cleanup

- Melt water control
Cleanup

• Melt water control
Cleanup

- Melt water control
Cleanup

- Melt water control
- Reestablish drainage paths
Cleanup

- Restore safety features and signs
  - Impact attenuators
    - Repair
    - Clear snow away (don’t allow ramp effect)
  - Guardrail
    - Similar concerns to attenuators
  - Median barrier
  - Sign posts (breakaway, yielding)
  - Light poles
  - Signs
  - Restore sight distances
Cleanup

- Loading, hauling, disposal of snow
  - Parking areas
  - Remove buildup for next storm
  - Dump only in approved areas
Cleanup

- Loading, hauling, disposal of snow
  - Safety
    - Your personnel
    - Vehicles
    - Pedestrians
  - Temporary Traffic Control?
Cleanup

- **Bridges**
  - Clear scuppers for drainage
  - Open sidewalks
  - Watch for refreezing

AASHTO Guide for Snow and Ice

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Cleanup

- Pavement and shoulder repairs
  - Pothole patching
  - Cold patch, hot/warm mix
- Brush cutting/tree removal
- Utility restoration
  - Overhead
  - Underground
- Abrasives cleanup
  - Vacuum truck, if you have or have access to
- Mailbox repair/replace (if applicable)
Cleanup

- Debrief and assess
  - What went well
  - What didn’t
  - Why
  - How to improve
  - Actions that can’t wait
  - Apologies to be made/hurt feelings to mend
  - Make notes for changes to plan
  - Involve the whole crew and no outsiders – speak freely
You’re Ready For The Next Storm

- On to Module 6 – Post Season Ops
What is/are in the Other Modules?

- **Module 1 – Introduction**
  - General objectives of snow and ice control
  - Weather basics
  - Importance of training
  - Innovation and evolution
  - Safety, risk management, liability
What is/are in the Other Modules?

- **Module 2 – Planning and Program Development**
  - Snow and ice removal plan
  - Standard operating procedures
  - Route maps/assignments
  - Review and updating plans periodically
  - Budgeting
  - Acquiring and renting equipment
  - Recordkeeping
  - Preparing elected officials
  - Preparing the public
What is/are in the Other Modules?

- **Module 3 – Pre-Season Activities**
  - Personnel training and refreshers
  - Stakeholder briefings
  - Contracting and material acquisition
  - Storage and handling materials
  - Equipment readiness
  - Crew and equipment assignments; practice runs
  - Snow markers and passive control devices
  - Check/clear drainage ways
  - Calibrate spreaders and other equipment
  - Public service announcements and bulletins
What is/are in the Other Modules?

- **Module 4 – Operations/In-Season Activities**
  - Chain of command
  - Inspect road conditions
  - Safety meetings
  - Plowing techniques
  - Abrasives and freeze point depressants
  - Weather information
  - Recordkeeping
  - Special areas

- **Worst case weather scenarios**
  - Disabled, inoperative, abandoned vehicles
  - Disposal of snow/environmental concerns
  - Safety
  - Day versus night operations
  - Meals
  - Dealing with the public
What is/are in the Other Modules?

Module 6 – Post Season Activities
- Inventory equipment and materials
- Clean and repair equipment
- Store equipment
- Review of performance and safety statistics
- Brief elected officials and bean counters
- Plan for replenishment of materials
- Road and shoulder repairs
- Assess the season
- Calibrate plan accordingly
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