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Questionnaire

for

NCHRP Project 4-33

Procedures for Testing and Evaluating Detectable Warning Systems

WJE No. 2006.0911

1. Please describe the locations where your department has responsibility for installing or maintaining detectable warning systems.

2. Are the detectable warning systems in your jurisdiction experiencing material failure problems? If so, please describe the material and kind of failure(s).

3. What are the primary mechanisms of deterioration of the detectable warning systems in your location? If there is more than one mechanism present, please rank. Please use the blank spaces to add additional deterioration mechanisms

☐ UV/Sun exposure	Rank:
☐ Snow removal	Rank:
☐ Abrasion from foot traffic	Rank:
☐ Abrasion from vehicle traffic	Rank:
☐ Extreme temperatures	Rank:
☐ Freezing and thawing	Rank:
☐ Thermal cycling	Rank:
☐ Other (please describe):	Rank:

4. What methods have you used to evaluate products for approval by your agency? Please describe any lab tests conducted.

- ☐ Field Trials
- ☐ Discussions with suppliers
- ☐ Manufacturer's product literature
- ☐ Laboratory tests

Please decribe any testing perfomed:

5. Are there particular tests that you require suppliers to conduct, or property specifications that need to be met, prior to using a particular product?

6. Please list the products that are currently used or approved for use. Have additional products been reviewed? Why were they not approved?

7. What material properties do you think are most critical for a durable detectable warning system?

- ☐ Flexural strength
- ☐ Compressive strength
- ☐ Fade resistance
- ☐ Slip resistance
- ☐ Chemical resistance (deicers, cleaning chemicals)
- ☐ Freeze/thaw resistance

Others:

8. Is there any information about properties or performance that you think is lacking from supplier's literature?

9. For locations where snow removal is an issue:

- What locations throughout the state is your DOT responsible for snow removal (state routes, interstate highways, etc.)?

- Can you describe the equipment used to remove the snow (type of plow blade, weight of plow blade, approximate speed of travel, etc.)?

- Please comment on the anticipated method of damage from snow removal (snow plows cutting corners, plows clearing sidewalks, etc.).

10. Please list any further comments.

11. If we may contact you, or someone in your agency, for follow-up discussions, please providea name, email address and telephone number.

Thank you for your time to help us with this most important research. Please respond at your earliest conveienece by filling in this form and pressing the submit button, or submitting by email to ksteiner@wje.com or fax to 847-291-5189.