NTPEP Briefing and Status Update

2018 Annual Committee on Construction Meeting
Pittsburgh, PA
May 2018

APEL is officially part of NTPEP.

At the 2018 Spring Meeting, the AASHTO Board of Directors approved a resolution to bring APEL under the NTPEP structure. APEL will continue to operate as it has, keeping the apel.transportation.org website, and processes intact. The APEL Council has been renamed the "APEL Task Force."
2018 NTPEP Status

- June 2018

- PennDOT installed ~ 150 Pavement marking materials (PMM) under the NTPEP program for 3 year field evaluation

- Sites are located in the State College area in rural interstate highway conditions
NTPEP PMM Test Deck 2018
What is NTPEP?

- Technical Service Program under Standing Committee on Highways (SCOH)

- Product Evaluation and Audit Program
  - By combined and collective resources, AASHTO state members can more efficiently perform laboratory and field testing on products used in the transportation system.

- Source of Data
  - Unbiased product data generated by laboratory test methods and field test deck evaluations adopted from national standards or developed by AASHTO members.
What NTPEP is NOT

- NTPEP does NOT pass or fail products

- NTPEP does NOT replace the Quality Assurance activities of state DOT’s

- NTPEP does NOT supersede State Requirements for product approval. Any state can require additional testing of the product prior to approval. (If such additional testing is required, the state can appeal to NTPEP for inclusion into the Testing Program.)
NTPEP – In Summary

- Simplify the product evaluation process
- Make it more **cost-effective** for both the manufacturer and the end user.
- Reduce duplication of effort by State DOTs.
- Serve as a “One Stop Shop” for Manufacturers of engineered products.
The benefits of using NTPEP

- Cost savings from reduced testing and auditing
- Gain access to testing that you don’t have equipment/manpower to perform
- Side by side testing
- Periodic re-evaluations
- Reliable, independent evaluations
- Improve current acceptance of products
- Audits
- Shared expertise and experience
NTPEP History

- Program formed in 1994
- A combination of the SASHTO and NASHTO regions
- PennDOT joined in 1996 and provided our PMM field test deck
- Originally evaluated/reported five products (Traffic safety)
NTPEP History

- Original reports in hard copy format

- Approximately year 2000 developed an online website and database called DataMine (1.0) to provide electronic searching, filtering and reporting of a rapidly expanding program with voluminous data reports.

- Website included program documents as well communication hub for internet access

- First audit program (rebar) developed in 2008

- Conducted peer exchanges to introduce incoming DOT’s to program
Product evaluation panels expanded to 23 products in three subject matter areas

Audit programs expanded to 6 in Construction subject matter area

52 DOTs participate/use/reference NTPEP program

DataMine 3.0 currently version online

Online survey page as well as routine direct surveys to update usage
Roughly 600 to 700 products/audits conducted yearly

Estimated value/cost of these efforts – 2 to 3 M $ of testing conducted annually

Product implementation panel (national representation) to review all new program requests

Recently incorporated revised/updated APEL program which shares DOT research nationwide and provides an avenue to new product testing
NTPEP Program

- Subdivided into Four general operations
  - Product Evaluations
  - Audit Programs
  - Product Implementation
  - APEL
All Programs Divided into Three (3) Functional Categories

- Traffic safety
- Construction
- Maintenance
23 Product Evaluation Programs

- **Traffic Safety –**

  - [Pavement Marking Materials (PMM)]
  - [Portable Changeable Message Signs & Flashing Arrow Panels (PCMS/FAP)]
  - [Raised Pavement Markers/Snowplowable Raised Pavement Markers (RPM/SRPM)]
  - [Sign Sheeting Materials/Roll Up Signs (SSM/RUP)]
  - [Temporary Traffic Control Devices (TTCD)]
23 Product Evaluation Programs

Construction

- Asphalt Release Agents (ARA)
- Concrete Admixtures/Concrete Curing Compounds (CADD/CCC)
- Detectable Warning Systems (DWS)
- Epoxy and Resin Based Adhesive Bonding Systems (ERB)
- Erosion Control Products (ECP)
- Geosynthetics (GTX & REGEO)
- Warm Mix Asphalt Technologies (WMA)
Maintenance

- **High Friction and Thin Overlays (HFTO)**
- **PCC Joint Sealants (JS) & Hot Mix Asphalt Crack Sealant (CS)**
- **Rapid Set Concrete Patch Materials (RSCP)**
- **Spray Applied Pipe Liners (SAPL)**
- **Structural Steel Coatings/Concrete Coating Systems (SSC/CCS)**
6 Audit Programs

- Corrugated Metal Pipe (CMP)
- Elastomeric Bridge Bearing Pads (EBB) Geosynthetics (GTX & REGEO)
- Guardrail/Guiderail (GRL)
- Reinforcing Steel/Welded Wire Reinforcement (REBAR/WWR)
- Thermoplastic Pipe (THP)
DataMine

- NTPEP DataMine provides the following functions to state users, industry users, and test facilities:
  - Submit application
  - Review test data
  - Approve test data
  - Withdraw a product
  - Review audit reports/certificates of compliance
APEL (AASHTO Product Evaluation List)

- Revised from past efforts by FHWA
- Shared DOT Research database for nationwide use
- New product evaluation process for ‘standardless’ /’cutting edge’ products
- Review panel – DOT representation from all 4 AASHTO regions
Committee interface with NTPEP

- Committee on Bridges and Structures
- Committee on Materials and Pavements
- Committee on Maintenance
- Committee on Traffic Engineering
- Committee on Construction
- Research Advisory Committee
Tap **button** for instant NTPEP gratification!
Questions/comments?