AGENDA
NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM

Protective Coatings Technical Committee
Wednesday May 12, 2010
1:00PM – 3:00PM
Orlando, Florida

1) Call to Order and Introductions

2) Society for Protective Coatings, SSPC – Bill Shoup

3) Action Items from 2009
   AI: Develop a work flow timeline - Complete
   AI: Develop a quality control plan –
   AI: Overhaul to Data Mine module – Scheduled for release June 2009
   AI: Recertification letters – Sent to Manufacturers for ’04 & ’05 Submissions
   AI: Guidance Document – In progress

4) Update-Program Status
   A) Structural Steel Coatings (SSC) Work Plan
      SSC Work Plan dated 2009 which includes the Work Plan and revised
      version of R-31 as an appendix is current and available on the TC
      homepage of the NTPEP website.

      NTPEP Work Plans are being reformatted to AASHTO Standards format.
      The reformatted version will replace the current version.

      Template language to update the Work Plan for electronic submission of
      systems (e-PEF) will be added. No technical revisions are expected at this
      time.

   B) SSC Systems Submitted/Status
      Color coded usage maps are being updated by AASHTO staff based on
      February 2010 usage survey results. Updated usage maps will be posted
      to the TC homepage.


      Discuss results of 2Yr Atmospheric Weathering data from NASA.

   C) System Monitors
      Efforts are being made to correlate data collected from SSC system
      monitors and publish a report of the findings.
D) **Data Mine Module**
With the launch of Data Mine 2.0, systems are to be submitted through the online e-PEF process available at [www.data.ntpep.org](http://www.data.ntpep.org). Manufacturers must register and login to the website. Once logged in they may submit new systems and review the status of previously submitted systems.

The SSC module is the first Data Mine 2.0 module to be implemented.

E) **Concrete Coatings Work Plan**
Discuss the draft version of the Concrete Coatings Work Plan. The next step is to prepare a Request for Proposal and bid invitation.

5) **Industry Concerns – Greg Girard**

6) **Action Items for 2010**

   AI-1)

   AI-2)

   AI-3)
# AASHTO/NTPEP 2010 ANNUAL MEETING

**Protective Coatings Technical Committee (SSC)**

**Technical Committee Agenda**

**Wednesday, May 12, 2010 (1:00pm-3:00pm)**

**Working Session #6**

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## Attendance Sheet

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<th>Employer</th>
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<td>Jason Davis</td>
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<td>Greg Girard</td>
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**National Transportation Product Evaluation Program 2010**

Hilton Orlando Hotel
Orlando, Florida
1) **1:00pm-1:05 pm:** Derrick Castle called the meeting to Order and Introductions were done around the room.

2) **1:05 pm-1:20 pm:** Mr. Bill Shoup from the Society for Protective Coatings (SSPC) spoke to the committee about the SSPC and all of the programs available through their association. The SSPC currently has a DOT list serve, numerous training courses for coatings and bridge coating inspection. They offer e-learning consisting of 4 courses and frequently offer webinars on various topics. A new course is being developed for engineers who develop specifications that will be available soon. SSPC is working to develop a council of facility owners to encourage communications between coatings people and the society.

3) There was a brief discussion about the idea of performing an audit of the testing lab doing the coatings testing. This followed Mr. Shoup’s presentation but was not necessarily related to that. Currently there is not really an entity with a program that is able to do an audit of the tests being run due to the specific nature of the testing being done. AMRL does not have a program at this time. Another entity was mentioned—A2LA. Dave Kuniega made a motion and Paul Vinik seconded the motion to follow up on the audit issue. This should be a discussion item for the next committee conference call.

4) **1:20 pm-1:45 pm:** Action Items from 2009 (25 minutes)
   - **AI 1:** Develop a work flow timeline – Complete. The work flow timeline has been completed.
   - **AI 2:** Develop a quality control plan – The quality control plan is in good shape at this time. It needs to be completed. The committee is currently considering expanding to incorporate QA parameters for physical testing.
   - **AI 3:** Overhaul to Data Mine module – Datamine 2.0 is up and running. It is greatly improved. It is easier for the test laboratory and manufacturer to upload data. It is easier for all users to find and download data. The data can now indicate compliance with the testing precision and bias statements. Previously all submittals were either paper or pdf documents. Now all documents are submitted electronically via the application form. It is easier to use, there are tabulated excel spreadsheets with all the data, pictures are thumb nailed, precision and bias is easy to understand.

   *One note: When uploading MSDS sheets it is recommended that all of these be combined into a single pdf document prior to uploading since the system only allows for a single document to be selected at one time for upload.*
AI 4: Recertification letters – Notifications were sent to Manufacturers for those products submitted in 2004 & 2005 to apply for recertification.

AI 5: Guidance Document – In progress – draft review discussion

The draft guidance document was presented to the committee. The user guide provides states a generic guide to the testing performed by the NTPEP program. The manual goals were simple, what is the test, what is it supposed to tell us, and what are common baseline values. It contained proposed baseline minimum test values for the 4 most common coating systems for each test performed. It was noted in the meeting that there was an error in the OZ/AC/AC system. The values were actually an AC/AC/AC so a 5th category will be incorporated into the tables specifically for an OZ/AC/AC paint system. This guide is intended to establish baseline minimum acceptance criteria as a guide for state when analyzing the results of a system.

5) 1:45 pm- 2:30 pm: Update-Program Status

A) Structural Steel Coatings (SSC) Work Plan

SSC Work Plan dated 2009 which includes the Work Plan and revised version of R-31 as an appendix is current and available on the TC homepage of the NTPEP website.

NTPEP Work Plans are being reformat to AASHTO Standards format. The reformatted version will replace the current version.

Template language to update the Work Plan for electronic submission of systems (e-PEF) will be added. No technical revisions are expected at this time.

The work plan will be updated to increase the performance testing. The current SOP is going to be revised to require more than one operator for reading the scribes. A second technician will be required to independently re-evaluate a minimum of one randomly selected scribed panel for each test in which scribed panels are utilized.

The question was raised about whether or not Salt fog testing should be moved to 5000 for analysis instead of 3000, 4000. In addition if the committee did want stop testing at lower hours, could it be just a photo review at the lower hours. The industry seemed to like this better than dropping altogether.

B) SSC Systems Submitted/Status

Color coded usage maps are being updated by AASHTO staff based on February 2010 usage survey results. Updated usage maps will be posted to the TC.
Status of systems submitted for 2009: 12 systems were submitted for testing. 6 were new products, 6 were recertifications. All of the recertification systems are completed; The remaining submissions are in test and being reviewed by the manufacturers.

Discuss results of 2Yr Atmospheric Weathering data from NASA. The Atmospheric panels were moved from Kure Beach North Carolina to the NASA site approximately 2 years ago. We are concerned that the test is not worth the cost. Most states do not wait to approve a paint system for the results of the 2-year atmospheric testing. In 2-years the results may not show anything other than a catastrophic failure. Feedback is needed from the States as to the direction for this test.

C) System Monitors
Efforts are being made to correlate data collected from SSC system monitors and publish a report of the findings.

This is a work in progress.

D) Data Mine Module

With the launch of Data Mine 2.0, systems are to be submitted through the online e-PEF process available at www.data.ntpep.org. Manufacturers must register and login to the website. Once logged in they may submit new systems and review the status of previously submitted systems.

The SSC module is the first Data Mine 2.0 module to be implemented.

The need for timeline enforcement has been noted. The committee is going to work with the Datamine representative to see about including some sort of automatic email notifications for the review process. This would consist of email reminders as a review period (as established by the currently completed SSC timeline) approaches.

E) Concrete Coatings Work Plan

Discuss the draft version of the Concrete Coatings Work Plan. The next step is to prepare a Request for Proposal and bid invitation.

There is a task group working to develop a draft from a handful of issues raised concerning concrete coatings. A lot of this is in regards to the consistency of the substrate for coating, i.e. the concrete is not consistent. The task force is working on
developing custom concrete test panels. Hopefully a work plan will be developed in the near future. The cost should be around $20,000. (Estimate only) There are also concerns about sample prep and storage.

6) 2:30 pm-2:50 pm: Industry Concerns – Greg Girard
Greg Girard was not at the meeting. Dee McNeil of Sherwin Williams provided an update. The industry has concerns about the relevance of the salt fog test. The industry feels that the salt fog test is too harsh. It was emphasized that acrylics cannot perform under these conditions. The request was made from the committee for a written justification as to why we should not run the salt fog on certain paint systems (acrylics).

7) 2:50 pm-3:00 pm: Action Items for 2010

AI-1) Completed user guide with prescribed minimum values displayed. Add acrylic, acrylic, acrylic system.

AI-2) Industry feedback on acrylic systems and salt fog.

AI-3) Timelines for Datamine review process—automated reminders to expedite review

AI-4) Decision on Salt Fog analysis

AI-5) Discussion on continued relevance of 2-Yr Atmospheric testing (Send panels to TX and NC for evaluation of other potential exposure sites).
SSPC: The Society for Protective Coatings

Presented to:
NTPEP Structural Steel Coatings
May 12, 2010

Presented by:
William Shoup, Executive Director
What is SSPC?

- SSPC is a not-for-profit organization that provides industry standards for “good practice” in industrial painting
- Resource for training and certification
- Resource for current industry information
Who is SSPC?

- Represents industrial painting industry
- Distributes industry-related information
- Develops industry-related standards, guides, and technical reports
- Implements programs to improve quality and safety
- Monitors trends and regulations that affect the industry

www.sspc.org
Individual Membership Demographics

- Facility Owner: 19% (+1)%
- Contractor: 37% (+4)%
- Fabricator: 4%
- Architect/Eng/Consultant: 11% (+1)%
- Coating Manufacturer/Dealer, Distributor: 18% (-6)%
- Manufacturer of Equipment or Abrasive: 6%
- Other: 3%
- Raw Materials Manufacturer: 2%

(* Percentage changes from FY 2008)
Benefits

- SSPC training and certification programs now have an added degree of credibility
- Other organizations have reciprocal agreements to accept the IACET CEUs
- Attendees now have more flexibility in achieving their career and professional development goals
SSPC Resources

- Coatings Talk
- Over 1,102 technical information inquiries
Public Policy Advocacy

- SSPC submitted comments to EPA on proposed NAAQS revisions for lead emissions – April 2009
- SSPC posted 60 headlines on its website relating to government activities affecting the coatings industry
- Watching proposed EPA rulemaking on Lead Paint Removal for Public & Commercial Buildings to Ensure That Industrial Structures are Excluded
- Monitoring proposed revision to OSHA Hazardous Communication, Standard Worker Right-To-Know
Public Policy Advocacy (cont’d.)

- Watching research EPA is conducting on Epoxy Bisphenol A Resin to determine if it is hazardous. Currently, the EPA considers the resin non-hazardous.

- Watching Southern California rule 1143 proposed to reduce VOCs to 25 g/l
Certification

- QP 1 & 2: 131
- QP 1, 2 & 3: 6
- QP 3: 33
- QP 1, 2, 3, 8, 9 & QS 1: 1
- QP 5 CERTIFIED: 6
- OTHER: 9
- TOTAL: 279
### Certification (cont’d.)

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* 1st quarter 2010
Certification (cont’d.)

• Random Audit Program (RAP)
  > QP 1 & 2 = 40 (as of 5/03)
SSPC QP-5 Certified Coating & Lining Inspection Companies

1. Corrpro Companies Inc.
2. CSI Services, Inc.
3. GPI Southeast, Inc.
4. KTA-Tator, Inc.
5. METCO-Materials Evaluation & Technology Corp.
6. Tank Industry Consultants
Education

- SSPC Courses
  - Bridge Coatings Inspector (BCI)
  - Concrete Coatings Inspector (CCI)
  - Protective Coatings Inspector (PCI)
  - C-1: Fundamentals of Protective Coatings
  - C-2: Planning and Specifying Industrial Coatings Projects
  - C-3: Lead Paint Removal
  - C-5: Lead Paint Removal Refresher
  - Lead Paint Worker Safety
  - C-7: Abrasive Blasting Training & Certification
  - C-10: Floor Coating Basics
Education (cont’d.)

> NAVSEA Basic Paint Inspector Course and Certification (NBPI)
> C-14 Marine Plural Component Applicator Certification (MPCAC)
> Quality Control Supervisor (QCS)
> C-12: Airless Spray Basics for Protective Coatings Applicators
> C-13: Waterjetting
> Applicator Train-the-Trainer
> Applicator Training (ACS-1)
> Coating Application Specialist (CAS) Certification Program
> Marine Coatings
Bridge Coating Inspector Program

- Two Levels
  - Level 1
  - Certified Inspector
- Disciplinary Action Program
- Professional Reference Required
- Formal Training and Certification Exam
- Four-day course, in person (lecture and hands-on)
- Two-day course exam and certification exams
- Credits: 4.5 CEUs

www.sspc.org
Bridge Coating Inspector Program Objectives

- Identify the specific duties of the bridge coating inspector
- Perform the daily inspection tasks associated with bridge coatings inspectors
- Properly document of progress of a typical bridge coating project
Bridge Coating Inspector Program Benefits

• Inspection tools and standards
  > Delivered specifically for the bridge market

• Standardized Practice
  > Providing uniform training for inspection practices
  > Roles and accountability

• Independent Audits

• National Certification
Other Projects Completed

- Training
  - New e-learning programs (4 courses)
    - Surface Preparation of Steel Prior to Coating Application
    - Surface Preparation of Concrete Prior to Coating Application
    - Surface Preparation of Nonferrous Metals Prior to Coating Application
    - Marine Basics
Other Projects Completed (cont’d.)

• New Course:
  > Evaluating Common Coating Contract Clauses

• Webinars:
  > Impact and costs of premature coating failures (September)
  > Natural coating degradation (October)
  > Defects and failures associated with the coating itself (November)
  > Defects and failures related to surface preparation and application (December)
  > Structural designs that accelerate corrosion (January)
  > Strategies for Avoiding Coating Failures (March)
  > Coating Failure Analysis (March)
  > Painting Over Flash Rust After Waterjetting (April)
New SSPC Course (Proposed)

ESSENTIAL ELEMENTS OF A PROTECTIVE COATING SPECIFICATION
Specification Essentials

• Course Objective
  > Describe the essential elements required to develop a successful technical specification for protective coating & lining applications for industrial steel and concrete structures

• Audience
  > Facility Owner Coating Program Managers and Engineers and A/E firms responsible for developing coatings specifications for their clients
Specification Essentials (Cont’d)

• Learning outcome
  > Cover key technical & related requirements needed to apply coatings and linings as intended by the owner and the manufacturer of the specified coating to obtain maximum service life for the service environment.

• Key Benefit
  > Better technical specifications - owners and A/E firms benefit by learning what needs to go into the coating specification soup (so-to-speak) to obtain the product desired.
Suggested Topics

• Contractor Submittals (e.g. Safety Plan, Waste Management Plan, Containment Plan, Work Plan, Inspection and Test Plan)
• References
• Definitions
• Access & Security (Job site)
• Material Requirements (approved coatings, thinners, abrasives, caulks, repair materials; storage requirements)
Topics (Cont’d)

- Contract Modifications (Change Orders, RFI, DFS, etc.)
- Surface Preparation
- Mixing, Application & Cure
- Repair Procedures
- Contractor Documentation (OQE) of work
- Customer QA
Topics (Cont’d)

• Corrective Action (CARs or NCRs)
• Clean up and Close Out
• Special Provisions, e.g.:
  > Working over waterways
  > Railroads
  > Traffic Control
  > Illumination
Delivery

- Present in Major Cities
- Day 1 – Overview of essential elements
- Day 2 (and beyond, as needed) – Workshops on mock project specifications; ineffective vs effective clauses

Note: attendees can stay just for overview or come back for workshops. No out-of-state travel
Future Emphasis

- Training
- Standards
- Certifications
- SSPC 2011 (GRS N COAT)
Thank You!

Questions?