

TPF-5(299) Technical Advisory Committee (TAC) Webinar Meeting Minutes

March 24, 2016

10:00-10:30 am EST

Attendees: FHWA (Mergenmeier and Van), SD, NC, ND, OR, KS, CA, AL, MD, MS, FL, PA, WA, TX

Not attending: NJ, GA, OH, KY, VA, CO, AR, MT

RPUG will be held November 2 and 3, 2016 in San Diego, CA. Motion by MS, second by CA to have next face to face meeting in conjunction with RPUG on Friday, November 4, 2016 in San Diego, CA. Approved unanimously.

- Hotel/meeting information: <http://www.rpug.org/>

Pooled Fund Study (PF) Sharepoint site –

<https://collaboration.fhwa.dot.gov/dot/fhwa/tpf5299/default.aspx> - TAC members please add link to your pavement condition data collection/PMS information similar to the PA link

Transverse Profile Calibration/Verification RFP (status) – recent RFI was posted and closed by FHWA – several expressions of interest received (non-binding). Expected advertised of RFP, summer 2016

Standard Data Format contract (ongoing) – contractor has submitted draft reports, reports reviewed by project review panel, and meeting between project review panel and contractor. Contractor working on addressing identified items. Project is on schedule.

Research Needs Statement (RNS) Development - November 2015 meeting several RNS concepts were developed and subsequent to the meeting the RNS concepts were balloted to select RNS concepts to be developed into full RNS. TPF-5(299) does not have the funding to accomplish all the work within its area of interest, thus RNS's are developed in hopes of others funding the work. There exists an opportunity within the NCHRP 20-7 program where research funding is available for small (maximum of 100k) but high value, quick turnaround (less than 12 months) research projects. The due date for submissions is April 29. We would need to have our submission completed by April 14 to make it through the process.

There were 3 RNS concepts that were higher rated than the others (results communicated via December 21, 2015 e-mail), thus these 3 were selected to develop into full RNS's.

- Transverse profile analysis RNS concept – Cross shape (slope, rutting, crowning, edge condition) is an element of several transverse analysis applications. With the availability of higher resolution transverse profiles the potential of greater information to be derived exists that would assess in pavement decision making (design, maintenance, condition, operational (water depth) . . .). Assess existing and/or develop most appropriate cross slope algorithm for the various transverse profile analysis applications and assess existing and/or develop other transverse profile analysis algorithms that are of national interest.
 - TAC members to develop into RNS: Choubane, Luhr, Rufino-Feldman. Plan is to submit the full RNS to NCHRP 20-7. Date to complete – April 14. Need "Friend" to assist.
- Exploratory feasibility concepts for ground truth protocols for cracking –
 - a. Competitive procured small (e.g. \$30k) contracts to explore potential concepts such as 3D printing, manufactured templates,

- b. The concepts would be based on physical (ie. not images) in nature and similar in color, contrast, shape, size, etc of pavement surfaces and cracking features.
- c. The procurement would include the possibility for multiple awards of selected concepts and the possibility for a larger project (e.g. \$50-250k) if concept is deemed worthy.
 - TAC members to develop into RNS: Choubane, Huang, George, Miller. Plan is to develop the full RNS and consider during the development if there are portions/stand alone tasks/activities that could be submitted to NCHRP 20-7. If submitting to NCHRP need to be completed – April 14, Otherwise April 30. Need “Friend” to assist.
- Faulting. AASHTO R36 fault has 2 methods goal is to assess going to 1?
 - a. Vision is detection is separate from faulting quantification: standard practice:
 - b. Performance based joint and transverse crack detection:
 - i. Accuracy, technology, independent,
 - c. Quantifying Faulting from profile(s) assuming locations of interest are identified
 - d. Section and length
 - e. Coordinate with potential new pooled fund study that originates from the existing TPF-5(063) longitudinal profile study managed by Orthmeyer, FHWA
 - TAC members to develop into RNS: Choubane, Rufino-Feldman, Smith, Huang. Date to complete – April 30. Need “Friend” to assist.