

Concrete Pavement Quality Improvement
Task Force
CPR TEAM

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**CPR Team
Task**

Create a Concrete Pavement Rehabilitation
(CPR) “Best Practices” Manual and
Associated Training Modules

CPR TEAM Members

Steve Grassetti	PennDOT BOCM QA East
John Coldren	PennDOT BOCM QA East
Joe Evanko	PennDOT BOCM QA West
Dan Dawood	PennDOT BOMO
Richard Roman	PennDOT Dist. 8-0 Design
Chris Leiphart	PennDOT Maintenance 8-4

CPR TEAM Members (cont.)

Jennifer Albert	FHWA
John Becker	ACPA
Chippy Golembiewski	Contracting Industry
Don Zurenda	Contracting Industry
Jim Kyper	Contracting Industry
Bob Priest	Contracting Industry

CPR Team Work Plan

- Design Considerations
- Construction Considerations
- Innovations
- Other Considerations

CPR Team Work Plan Design Considerations

- Choosing the right type of Concrete Pavement Rehabilitation (Pub 242 & NHI Guidelines)
 - Total reconstruction
 - Spall repairs
 - Bituminous material
 - Concrete material
 - Concrete patching
 - Diamond grinding
 - Bituminous overlay
 - Dowel bar retrofit
 - Pilot project with an innovative practice

CPR Team Work Plan Design Considerations (cont.)

- Choosing the right CPR practice at the right time (MECE Guidelines?)
 - Will the conditions of the project change significantly from inception to letting?
 - Is the type of CPR originally selected still appropriate?
 - What is the expected life of the CPR practice selected?

CPR Team Work Plan Design Considerations (cont.)

- Other Considerations and Constraints
 - Funding
 - Traffic Control (Long term or Short term?)
 - Specific Project Information
 - Severity and extent of each type of distress
 - IRI
 - Skid Number
 - Structural Adequacy of Existing Pavement

CPR Team Work Plan Construction Considerations

- Project Construction and Inspection
 - Develop Training Modules for each type of Treatment Including
 - Inspectors “checklist”
 - Power point presentations with “Best Practices”
 - Training and reference manuals

CPR Team Work Plan Innovations

- Temporary Inserts
 - Timber
 - Pre-cast temporary slabs
- Permanent Inserts
 - Pre-cast concrete panels
- National and International practices

CPR Team Work Plan Sessions Developed

- Design Considerations
- Full Depth Repairs
- Partial Depth Repairs
- Diamond Grinding and Grooving
- Dowel Retrofit
- Slabjacking/Slab-stabilization
- Joint /Crack Cleaning and Sealing
- Treatment Selection

CPR Team Work Plan Where we go from here

- Implement “Best Practices” determined and developed where appropriate
- Recommend procedural, policy, and specification changes as needed

CPR Team

Where we go from here

- Modify existing specifications as required due to “best practices” identified by team
- Create Inspectors’ Checklists for each of these CPR practices
- Conduct training sessions
 - District winter school
 - Senior Inspector in Charge
 - Just-in-time project training
 - Regional training sessions with industry

Questions and Comments

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