



HB 21-1303 - CDOT Status Update

EPD Workshop August 16, 2022

Introduction



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 - Key Terms
- Analysis Process Overview
 - Initial Focus bid items
- Industry Readiness/Iterative Growth
- Current/Next Steps
- Document Review
- Planned EPD Growth
- Summary/Questions



HB 1303 Implementation Update



Key Team Members

- CDOT Members
 - Keith Stefanik
 - Andy Karsian
 - Craig Wieden
 - Hailey Goodale
- Consultant/SME
 - Bill Schiebel Rocksol
 - Joep Meijer The Right Environment Ltd.
- FHWA
 - Brian Dobling
- Academia/Research
 - Christopher Senseney/Michael Seamon CU Boulder









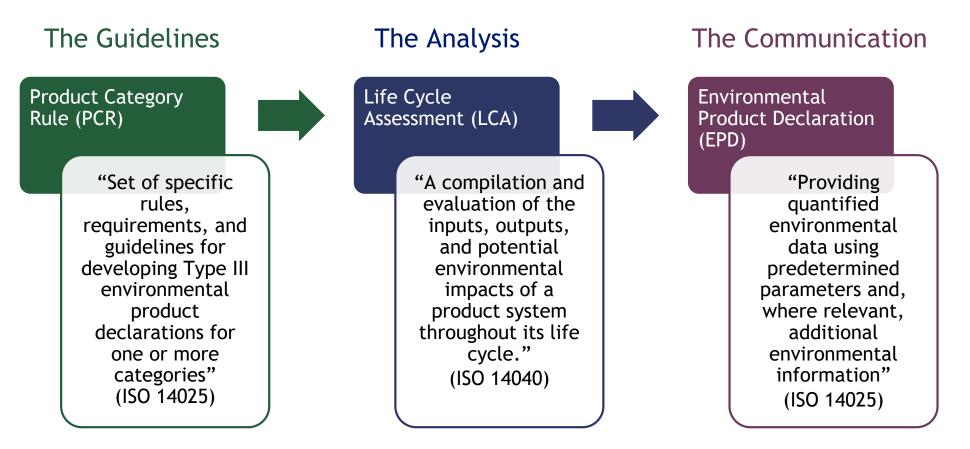


HB 21-1303 Recap

- HB 21-1303 was passed in July 2021 and incorporated into CRS Statutes 24-91-117/118. <u>https://leg.colorado.gov/bills/hb21-1303</u>
- Section 118 requires CDOT to begin collecting Environmental Product Declarations (EPD's) on eligible materials including:
 - Asphalt and Asphalt Mixtures; Cement and Concrete; Steel
- EPD Data collection to begin for eligible materials on eligible projects advertised after July 1, 2022
 - Projects requiring EPD collection will contain the Standard Special Provision Revision of Sections 101 and 106 - Environmental Product Declarations
- CDOT will then use these EPDs to develop a policy by January 1, 2025, that will establish a maximum Global Warming Potential (GWP) for each eligible material, with an overall intent of reducing GWP in the future.



Key Terms



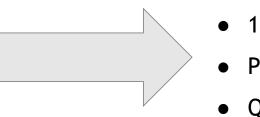
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Analyses Process Overview/Results

- Eligible CDOT Bid Items
- 95th Percentile Item Expenditure Analysis
- Project Level Expenditure Analysis
- Five Major Items Analysis
- Focus EPD Bid Item Collection Items
- Project Cost Limit Evaluation
- Item Quantity / Cost Limits Evaluation



- 13 Focus Bid Items
- Projects > \$3M
- Quantity Exceptions



What are the 13 Focus Bid Items?

• <u>13 Focus Bid Items</u> include:

- Item 206 Structure Backfill
- Item 310 Hydraulic Cement
- Item 403 Asphalt Mixtures (HMA/SMA/WMA)
- Item 412 Portland Cement Concrete Pavement
- Item 503 Drilled Shafts
- Item 504 Retaining Walls*
- Item 601 Structural Concrete (all classes)
- Item 602 Reinforcing Steel
- Item 604 Inlets / Drainage Structures*
- Item 606 Guardrail/Bridgerail*
- Item 608 Sidewalk/Bikeway (concrete/asphalt)
- Item 609 Curb and Gutter (concrete)
- Item 610 Median Cover Material (concrete/asphalt)

*Initial EPD collection on cast-in-place elements (concrete and reinforcing steel) only.



Industry Readiness / Iterative Growth

- Most North American EPD processes to date have centered around Buildings/LEED
- Current Industry PCR/EPD Readiness
 - Focus initial collection with July 1 Specification on those ready to go <u>now</u>
 - Hot Mix Asphalt Producers/Suppliers
 - Concrete Ready Mix Suppliers and Concrete Paving Companies
 - Steel Reinforcing Steel
- Iterative Growth Year 2 and Year 3 EPD's
 - Outreach and Education to Industry Stakeholders
 - Local and National Level



Current Progress/Next Steps

- Specification Development complete on several eligible projects.
- Protocol Document (Appendix O in the Field Materials Manual) complete, and published in the 2023 FMM.
- Initial Industry Stakeholder Coordination complete, meetings held with asphalt, concrete, steel and CCA.
- EPD Submittal Form complete, initial submittals google form while we work with OIT to develop a process for submittal/storage using OnBase.
- Reporting Initial EPD data will be stored in a spreadsheet and will require manual reporting. OnBase has customizable reporting functions that we plan to use in the future.
- Construction Bulletin, EPD Bid Item Tool, EPD website Complete



Other completed elements

- Update to PDAC on the new EPD requirement June 8th.
- Construction Bulletin to be issued with link to relevant items.
- CDOT EPD Website Development



DRAFT Specification/Protocol Document

• Specification

Specification

• Protocol Document - Appendix O - 2023 Field Materials Manual

Protocol Document

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Planned EPD Growth



- PCR/Industry Readiness
- Planned Iterative Growth
 - Precast concrete
 - drainage
 - structural/prestress
 - Structural Steel
 - Cold rolled steel
 - guardrail
 - corrugated metal pipe



Summary/Questions

- Initial EPD Collection to start on projects advertised after July 1, 2022 will include:
 - Projects over \$3 Million Total Cost (engineers estimate of bid items only)
 - Asphalt
 - Concrete
 - Reinforcing Steel
 - Small quantity limits
- Future Iterative program growth with industry development and maturity (July 2023)
- Questions on Initial EPD Data Collection Plan?