



U.S.Department of Transportation

Federal Highway Administration

Turner-Fairbank Highway Research Center

Research, Development, and Technology Turner-Fairbank Highway Research Center 6300 Georgetown Pike McLean, VA 22101-2296 https://highways.dot.gov/research Best Practices for Corrosion Control and Mitigation – In response to House Reports 115-237 and 115-750, which requested Federal Highway Administration (FHWA) to submit a report on the status of corrosion control planning by State departments of transportation and the status of corrosion control best practice requirements in State regulations and in bid specifications for bridge projects using Federal taxpayer money. The CCL report (FHWA-HRT-24-127) attempts to give visibility to the processes by which FHWA and States ensure the use of best practices for bridge corrosion prevention and control.

Worker Certifications Effectiveness Evaluation – In response to House Report 114-243 and Senate Report 114-606 requesting FHWA to assess the impact and value of certification requirements for workers performing bridge corrosion prevention work. The CCL report (FHWA-HRT-24-128) documents the research conducted on worker certifications

for blasting and painting, as well as the information analyzed

from specific bridge corrosion prevention projects.

**Industry-Recognized Corrosion Prevention** 

# SUMMARYREPORT

Turner-Fairbanl

# Best Practices for Corrosion Control and Mitigation

FHWA Publication No.: FHWA-HRT-24-127 FHWA Contact: Frank Jalinoos, HRDI-30, (202) 493-3882, frank Jalinoos@dot.gov

### NTRODUCTION

This uppert was prepared in response to House Report 115-227 and House Report 115-759, which requests that the Secretary of Transportation subsit a spect on the status of corrosion control planning by State departments of transportation (State DOTS) and the status of comosion control best practice requirements in State regulations and in both specifications for bridge product in the state of the state of the state of the state of the state House Reports.

This in sport attempts to give visibility to the processor by which the Federal Highway Admissions (FIRM) and fitted content the sort for inperiod reference for high corresion prevention and control. This report is not intended to correst consists control standarday on them they exhibited highly for that, the correst consists control standarday on the say that the party. The practice of an including and the prevention of the practice of an including an exhibite deplay or previous final reports to be failed to concern in intuited to correston of structural stand and and restorement in intuited to correction for structural stand and and restorement in intuited to correct, bridge decks, and tensioned

To develop this report, FIWA reviewed its bridge design and preservation activities, the literatus organizing corrosion control standands, and individual State DOT construction or specifications. In addition, FIWA corresponded warrious States trade associations, and industry user SUMMARY!

The FIFWA and the bridge industry have been acti approaches to mitigate the effects of comosion for report highlights the current state of bridge corrois in three areas. Hest Practices for Corroisor-vives Corroisor-velated Training and Certification, and

Planning. The following is a summer:

1. Status of Corrosion Control Be

practices are codified in American Association of Transportation Officials (AASITIO) specification technical updates to State agencies requesting indon comosion control through technical working is documents. Over the past 40 years, 1978A has a four major bridge comosion issues – imprevents for comosion protections, corresion protections of development of corresion-resistant stack (wearh stock), and grouperities of must associated as the models, and grouperities of must associated as the models and grouperities of must associate as the models and grouperities of must associate as the models and grouperities of must associated as the models and grouperities of must associate as the models are the must associate as the models are the models and grouperities of must associate as the models are the must associate as the models are the models and grouperities of must associate as the must associate and the models are the must associate as the must associate as the models are the must associate as the must associate as the must associate and the must







Industry-Recognized Corrosion Prevention Worker Certifications Effectiveness Evaluation

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### OPE

The Sente and House Appropriation Committee reports to accompany the U.S. Department of Transportation and the U.S. Department of Studiosing and Urban Development, and Reduced Agencies Appropriation BIZ, 2017 (H. Regt. 114-24) and S. Regt. 114-260 impossed for Transport Highway Administration (THINA) to assess the impact and value of centification requirements for workers performing bridge corression precention work. The language from the House and Sensit reports states:

## The Committee directs FHWA to conduct a study comparing the cost

effectionses of industry-scooping and consisten prevention worker confidentions on infondity industries on prevention they and designing projects. The study dail (compare no loss than 12 Courtely to high paid a perspan projects. The study had (compare no loss than 12 Courtely to high paid a perspan projects. The study had compared to the study of the stu

# Senate Report

The Committee directs FHWA to conduct a study comparing the cont-effectiveness of industry-recognized conssion prevention worker

fuctions on follerally funded corression prevention bedge and overposs cut. The study shall groupers to lose that a [2 country] vibilization projects riving the structure of bridges using comosion prevention and misigation me, including at least the projects that stilling as industry recognized consosion ratios worker standard and no loss flunds in structure projects that do not use an any recognized workers standard. The study shall include as comparison of me is compilate projects, initial QC reports, and budgerury overmans. The A dual standard the could from its multiple and proper to the Blossou and Senate

This report documents the research conducted on worker certifications for blusting and parting, as well as the information analyzed from specific bridge corrosion procession projects. It is important to understand that throughout the superst, much of the discussion curters on contractor (bridge parting commoning firms) correlations, on although our polymorphism than the implemental for some time. The specific issue of worker (bluedge-partitional) or network and in the process of better institute industry. We more contractionally the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of better institute industry. We more many than the process of the process

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