## UTC Project Information

<table>
<thead>
<tr>
<th><strong>Project Title</strong></th>
<th>Extending Bridge Deck Life</th>
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<tbody>
<tr>
<td><strong>University</strong></td>
<td>University of Nevada, Reno</td>
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<tr>
<td><strong>PI</strong></td>
<td>David H. Sanders</td>
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</tbody>
</table>
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| **Funding Sources and Amount Provided** | UTC-$98,299  
NDOT - $56,222 |
| **Total Project Cost** | $154,521 |
| **Agency ID or Contract Number** | DTRT13-G-UTC55 |
| **Start and End Dates** | 8/1/2016-9/30/2018 |

### Brief Project Description

Maintaining bridge decks is huge issue. The primary objective of the project will be to develop a bridge deck maintenance guide that focus on weather conditions that are common in the desert southwest. This includes areas of extreme dry heat to mountainous regions with snow and deicing salts. An experimental phase will test these materials under accelerated conditions and then use test bridges to apply the knowledge in the field.

### Describe Implementation of Research Outcomes

The final step will be a comprehensive report that describes the work and provides recommendations for bridge deck maintenance. Provide final recommendations on best materials and methods for extending deck like. Presentations will be provided for the DOTs as well as a guide.

### Actual Impacts/Benefits of Implementation

It is critical to extend the life of a bridge deck as long as possible since bridge deck replacement is difficult, expensive, and it significantly disrupts the traveling public. For example, NDOT currently utilizes overlays, but effective use of sealants and deck treatments could delay overlays, save costs, and extend bridge deck life.

### Links