

**NCDOT Prestress Standard Repair Procedure for Non-Conformance Report (NCR)  
SRP-04: Longitudinal Cracks – Standard Repair Procedures– 04/05/2022**

**Structures Management Unit Review Comments**

The NCDOT Structures Management Unit recommends that the following standard procedure be followed for all girders, cored slabs, and box beams in which longitudinal cracks have been observed:

- For crack widths less than or equal to .005", a seven-day water cure is the only action required.
- For crack widths greater than .005" and less than .010", use a silane spray on the cracks, one that is on the NCDOT Approved Products List.
- For crack widths equal to or greater than .010", use an approved epoxy injection procedure. The repair material shall be on the NCDOT Approved Products List. The procedure shall be performed in the presence of and to the satisfaction of an NCDOT inspector.
- If the cracks are in excess of ¼", and/or rebar has been exposed, then SMU requires to be consulted on the NCR.
- Perform repair operations in the presence of and to the satisfaction of the on-site NCDOT inspector.

There shall be an NCR written and saved in the project file for future reference. The NCR will not be required to be submitted to SMU providing that the procedures outlined above are strictly followed.

If for any reason the above requirements cannot be met a NCR submittal will be required for review.

If you have any questions or comments, please contact James L. Bolden, Jr., PE at (919)707-6408 or Madonna Rorie, PE at (919)707-6508.

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