

### Prestress Concrete Inspection for Authorization to Ship/Payment

#### *Girders and Beams*

The Department's preference is that when a Producer finishes a span, the Materials and Tests inspector (either a NCDOT Employee or Contract Engineering Inspector) will then perform the final inspection<sup>1</sup> of all of the members in the span when the Producer indicates that work upon the items in the span has been completed.

#### *Piles and Deck Slabs*

The Department's preference is the Materials and Tests inspector (either a NCDOT Employee or Contract Engineering Inspector) will perform the final inspection<sup>1</sup> of all of the members in a cast when the Producer indicates that work upon the items in the cast has been completed.

#### *All Items*

Upon determination that the members are acceptable, the Inspector will complete the documentation required for shipment and payment of the members in the span.

"Final Inspection" is defined as the inspection wherein the Department's Inspector determines the suitability of any repairs that have been made, records fitment information, and approves the item for shipment.

We will perform final inspection for quantities less than full spans or casts in cases such as:

1. If you start on items for a contract and have to stop to produce items for another contract that has been moved ahead of the current contract by the Department.
2. If a Contractor has an urgent request to ship partial spans in order to facilitate an intermediate contract deadline or a change in the project's construction schedule.
3. Production rates for specialty items would create a hardship if not inspected on a piece by piece basis.

The Department will continue to perform checks during production of items including inspection of pieces after casting/removal from beds and will communicate any concerns to the Producer as they are noted.

*Non Conformance*

Please note that if a Non Conformance has occurred, it is important that the Producer's QC Department submit the proposed repair procedure as soon as possible so that the Materials and Tests Unit can submit it with the NCR to the NCDOT Structures Management Unit for approval in a timely manner.

For issues for which a standard repair method has been authorized, the Producer's QC Department will confirm with the Department's Inspector that the issue qualifies as a "Standard NCR" prior to performing the repair. The "Standard NCR" will be completed to document the issue and repair<sup>2</sup>.

Notes:

- 1) Items will be reinspected prior to shipment if there is a sufficient time lag (several months) between approval of the pieces at the yard and the actual shipment date to warrant concern for changes in fitment dimensions such as camber or sweep or if storage/handling damage is suspected.
- 2) Standard NCR are defined by the Structures Management Unit. Standard NCR are to be submitted to Structures for documentation of the incident and are to be filled in the Materials and Tests inspection files (using Sharepoint) for the structure/contract).