

ISSUE: A

WATERBORD STEAM ELECTRIC STATION - UNIT-No. 3

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NOTATIONS IN THIS COLUMN INDICATE WHICH CHANGES HAVE BEEN MADE.

## 1.0 Purpose

To state methods used by Ebasco Services to store, handle, install, and splice reinforcing steel.

## 2.0 Scope

This procedure is applicable to the storage, handling, installation, and splicing of reinforcing steel performed by Ebasco Services.

## 3.0 References

- 3.1 Specification LOU-1564.473, "Concrete Reinforcing Steel Furnishing, Fabrication, and Delivery".
- 3.2 Specification LOU-1564.479, "Mechanical Splicing of Concrete Reinforcing Steel - Seismic Class I."
- 3.3 Ebasco Procedure CP-708 - "Cadmolding and Cadwelder Qualification".
- 3.4 Ebasco Procedure ASP-IV-10 - "Material Receiving, Warehousing, and Control".

## 4.0 Definitions

None

## 5.0 Responsibilities

- 5.1 Construction Department is responsible for performing all activities under this procedure.

## 6.0 6.1 Unloading and storage of Reinforcing Steel

- 6.1.1 Rebar shall be unloaded from delivery trucks in accordance with standard construction practices. Methods of handling shall be such that the bars are not permanently bent out of shape.
- 6.1.2 Rebar shall be stored outside on dunnage to allow circulation of air under the steel and prevent bars from lying on the ground or in standing water. Rebar bundles may be stacked but shall have dunnage between the layers to facilitate lifting of bundles. Bar mark and heat number tags should remain accessible on all bundles.
- 6.1.3 Reinforcing steel shall be requisitioned from the warehouse in accordance with Procedure ASP-IV-10.
- 6.1.4 Reinforcing steel accepted by Construction shall be stored on dunnage whether inside or outside the building.

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## 6.2 Cadweld Material

6.2.1 Cadweld material shall be stored by the warehouse and requisitioned by the Construction Department when needed in accordance with ASP-IV-10.

6.2.2 These materials shall be stored by the Construction Department in dry storage and shall be kept for short periods only. Construction shall requisition only a one to two day supply of cadweld material. Excess material shall be returned to the warehouse for storage.

## 6.3 Placement of Reinforcing Steel and Cadweld Splices

6.3.1 Reinforcing steel shall be placed in accordance with bar marks called for on drawings. Cadwelds shall be located as shown on drawings or other approved documents or as required in blockouts or repairs.

6.3.2 Cadwelds shall be installed only by qualified cadwelders and in accordance with approved procedures. Qualification requirements and installation procedures are detailed in Procedure CP-708.

6.3.3 Completed cadwelds shall be stamped with the assigned identification letter(s) of the operator or crew and the sequential number of the weld by that crew.

6.3.4 Modifications to reinforcing steel requiring cutting may be by flame cutting, grinding, shearing, or sawing.

6.3.5 Prior to installation of rebar, loose mill scale, dirt, grease, or other contaminants shall be removed.

## 6.4 Fabrication of Reinforcing Steel

6.4.1 Rebar is generally furnished by the vendor in accordance with approved bar bending schedules.

6.4.2 When additional bars are required, these may be cut and bent from stock steel received from the approved rebar vendor.

6.4.3 Rebar shall be cut to length and bent in accordance with bar bending schedules.

6.4.4 Bars shall be cold bent and shall comply with requirements in CRSI Manual of Standard Practice, 20th Edition for minimum radius of bend, bending tolerances, length tolerance, etc.

6.4.5 Bars bent to a radius as a circular bar and requiring cadweld splicing shall be bent to the specified radius from end to end. Bars which end in a short straight length will be cut to fit the correct radius if the total circular length is adequate.