



## *Big Bend Station*

- At Big Bend Station we specify/order 1 1/4" deep grating with 3/16" bearing bars spaced 1 3/16" on centers and 3/16" cross bars spaced 4" on centers. Maximum spans are 5'-6" to minimize deflexion.
- The minimum live load rating for grating floors at Big Bend Station is 50 pounds per square foot. The live load rating for grating in some areas of the Plant is higher and they are specified on the Plant structural steel drawings. The live load ratings do not include the safety factor, which is built into the grating design calculations.
- When replacing grating, the new grating should be installed with the same type grating, in the same manner with the bearing bars spanning in the direction shown on the structural steel drawings. As a rule of thumb, the bearing bars should be installed spanning in the same direction as the existing grating being removed realizing that the steel supporting the grating should not be spaced more than 5'-6" apart.
- Serrated grating shall not be used at Big Bend Station except under very specific applications, and only after approval by the Safety Department. (Span for serrated grating shall not exceed 5'-0"). (John Lewis to investigate blocking access to obtain serrated grating through stores)
- Holes through grating, which cut through more than four (4) bearing bars must be properly framed for support, i.e., banding, additional structural element, etc.
- Holes in grating which cut through four (4) or less bearing bars may be covered with 1/8" checkered plate.
- If more than four (4) bearing bars in a three-foot section are too thin, that section must be replaced. (Action item – D. Barrette will provide the design for a measuring tool, D. Valentine to fabricate)
- The practice of using grating for support, i.e. putting a choker on pipe on grating and passing through holes, etc., is prohibited.
- R. Szymanski to create job aid document based on the items addressed in this memo.

The above applies to standard steel grating in the Big Bend Station. The use of serrated steel grating or fiberglass grating would require approval of the Safety Department and additional guidance from Generation Engineering.