



DRAFT

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Service Reference

Topic: Supplemental Cell Guarding Scheme

Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work or unpacking any further.

Required Materials

- 2" PVC Sch 80 pipe
- 2" PVC Sch 80 Elbows
- 2" PVC Sch 80 Dome Caps
- PVC primer & cement

Required Tools

- pipe cutter

If your ED tank does not have rub rails installed along the side walls of the tank, then it is likely that large, light weight parts can sway back and forth and may damage Membrane Electrode Cells, even if they have a Membrane Guard.

It is possible to construct a low cost guard from 2" PVC pipe and fittings. The design of the guard will be to gently push parts back towards the centerline of the ED tank. If you have a monorail, then maybe just 2 will do, one on each side on the entrance of the ED tank. If you have a hoist type system, then four are recommended, one at each of the corners of the ware. The Supplemental Cell Guard needs to be flexible and be able to move out of the way. It should be designed in a way that will break away before the rack or conveyor do, since it is made from inexpensive components.

1. See Figure 1 for a typical cross section of the Supplemental Cell Guard. It should extend about 75 mm (3 in) closer to the ware than the Cell and extend 150 mm (6 in) below the Cell.
2. If you do not want to use a dome cap at the bottom, then place several large holes every so often to make sure there is a good flow of paint in the vertical portion of the guard.
3. Attach this guard to the same strut channels that the Cells are secured to.
4. See Sara for Bulletin Number assignment.

call UFSc at the phone number shown above.

For more information see the original manual that came with the equipment or

Bulletin **See Sara for PN** Literature\Service Reference\Supplemental Cell Guard Scheme

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Think and act in a safe manner. Always disconnect power and use a lockout before you work on the E-coat system, or any of the related subsystems. Observe any confined space conditions. Use the appropriate safety equipment and clothing for the task.

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