



NEXGEN
FUELING™

A division of Chart Industries

VT-0005

002

CES

DE-FUELING PROCEDURE

This procedure is to be used with the two tank Nova Buses.

Wear—at a minimum—gloves and protective face shield when preparing tanks for de-fueling.

1. Bring bus to de-fueling area, stop engine, and shut off all electrical power.
2. Remove access panel to fuel tanks and shut off liquid valves on both tanks.
3. Remove lower access panel to expose LNG vaporizer.
4. Carefully disconnect LNG line from the vessels to the vaporizer at the vaporizer connection. Loosen fitting nut one or two turns, and then wiggle the pipe until any trapped vapor has been vented.
5. Completely disconnect fuel line from vaporizer.
6. Temporarily cap vaporizer with a blind fitting to prevent moisture or contaminants from entering the vaporizer.
7. Connect de-fueling hose to fuel line.
8. Open liquid valves on both tanks one or two turns. The valves should be opened gradually, but not so much that the excess flow valve is triggered.
9. Leave both valves open until lines begin to defrost. This will take at least 20 minutes.
10. Once de-fueling is complete, vent the tanks until all pressure has been removed from the tanks.
11. Close all valves.
12. Inert the tank and pipe it with nitrogen if the bus is to be taken out of service for an extended period. This is recommended for added safety. (See Procedure VT 0006).
13. Reconnect fuel line and stow de-fueling hose.
14. Perform repairs as required.
15. Pressurize system.
16. Bubble test to ensure there are no leaks.
17. Restore bus to service.

This procedure is for use by trained mechanics experienced with using Liquefied Natural Gas systems and vacuum technology. Review all pertinent safety documents before starting this procedure.