Fumigation Requirements for DDG, Corn and Wheat in Marine Bulk Cargo Holds to Vietnam

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Vietnam DDG Team

Chicago, Illinois

The following will be required for export of U.S. dried distillers grain (DDG), corn and wheat to Vietnam in marine bulk cargo holds:

1. Official stowage inspection of all cargo holds prior to loading;
2. Official observation and certification of phosphine or methyl bromide fumigation of DDG, corn and wheat;
3. The phosphine fumigation schedule for DDG, corn and wheat will correspond to the below table;
4. Recirculation system for in transit fumigation of bulk loaded DDG, corn and wheat in ship’s holds;
5. Official fumigation management plans will require hatch cover seals and note need for monitoring the continuous operation of fumigant recirculation blowers throughout specified duration of fumigation.
6. An Additional Declaration on the official export phytosanitary certificate will read: *The inspected lot conforms to the requirements for DDGs/Corn/Wheat for export to Vietnam.*

**Phosphine Treatment Schedule Using Recirculation System\*, Hold of Marine Vessel for Vietnam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Commodity Temperature °C**  | **Commodity Temperature °F**  | **Minimum PH3 Pellets or Tablets and PH3 Gas Concentration**  | **Minimum Exposure Period**  |
| **10-15** **15-20** **>20**  | **50-59** **60-69** **>70** | **45 gm/1,000 cu ft for minimum of 750 ppmv** **45 gm/1,000 cu ft for minimum of 750 ppmv** **45 gm/1,000 cu ft for minimum of 750 ppmv**  | **5 days** **4 days** **3 days** |

\*Using recirculation system as per the Federal Grain Inspection Service Fumigation Handbook.