Coded Note Number: **T1470**
Revision: **C001**
Date: **August 13, 2017**
Title: **HEPA FILTER MARKINGS**

This revision history is provided for convenience and does not alleviate the supplier's responsibility with understanding and complying with the full coded note.
Change from Revision B – Editorial change to reformat to current standard.
Bolded font indicates changed/added content.
[*Text deleted*] inserted in the document indicates the removal of content.

High Efficiency Particulate Air Filters

Filters must be marked by stenciling or with a non-removable label on the top of the frame to indicate; manufacturer, model, serial number test airflow direction airflow resistance at rated airflow and the results of the dioctylphthalate (DOP) smoke penetration test at rated airflow and at 20 percent of rated airflow. The filters have an efficiency of not less than 99.97% as determined by the DOP test method 102.9.1 Military Standard 282, latest revision. The filters meet Underwriters Laboratories UL-586 (latest revision) and the requirements of ASME AG-1 section FC (latest revision).

Notes:

(1) The physical dimensions of type II and IV cartridges are exempt from meeting section FC-4110 of ASME AG-1.
(2) Type IV HEPA filters are not required to be DOP tested at 20% percent of rated airflow. Type I filter frames shall not be constructed from metal.

Each filter face shall be visually inspected using a high intensity direction beam spotlight (i.e., Jetlite model 2127, Burton Div, Cavitron Corp.) and one sheet of good quality 1/4" thick plexiglass sized to suit the external dimensions of the filter being inspected. The plexiglass must be placed against the surface opposite to the filter face being inspected, and the spotlight set firmly against the plexiglass with the light beam focused directly through the plexiglass and filter. Breaks, cracks and pinholes will appear as light beam penetrations during the inspection. Filters shall have no visible breaks, cracks or pinholes on the filter media or on the adhesive seal surrounding this media. Variation of light intensity is anticipated due to variations in filter media thickness and is considered acceptable.

Notes:

(1) NNS will perform the "light test" described above.
(2) NNS will use the results of the light test to determine which filters, if any, require an additional DOP test which will be performed at NNS.
(3) HEPA filters in which light tests indicate factory repairs of the filter media are deemed unacceptable and shall be returned to the vendor.
(4) Rejection or acceptance of any questionable filter(s) will be based solely on the results of the DOP test.

(1) To prevent the generation of mixed waste, cadmium and cadmium plating shall not be used in the construction of HEPA filters.

All packaging requirements must meet the standards set forth in ASME AG-1 section FC (latest revision). Shipping containers must be marked "This Side Up and Handle with Care".

The shipping bill of lading must state, "Fragile Handle with Care, Do Not Drop or Handle Rough. Do not stack more than three units high. Do not transport with mixed cargoes unless the shipment can be fully segregated to ensure the safety of this product. Final acceptance subject to receipt inspection of purchaser."

Notify NNS Purchasing Department (051) in writing at time of shipment.